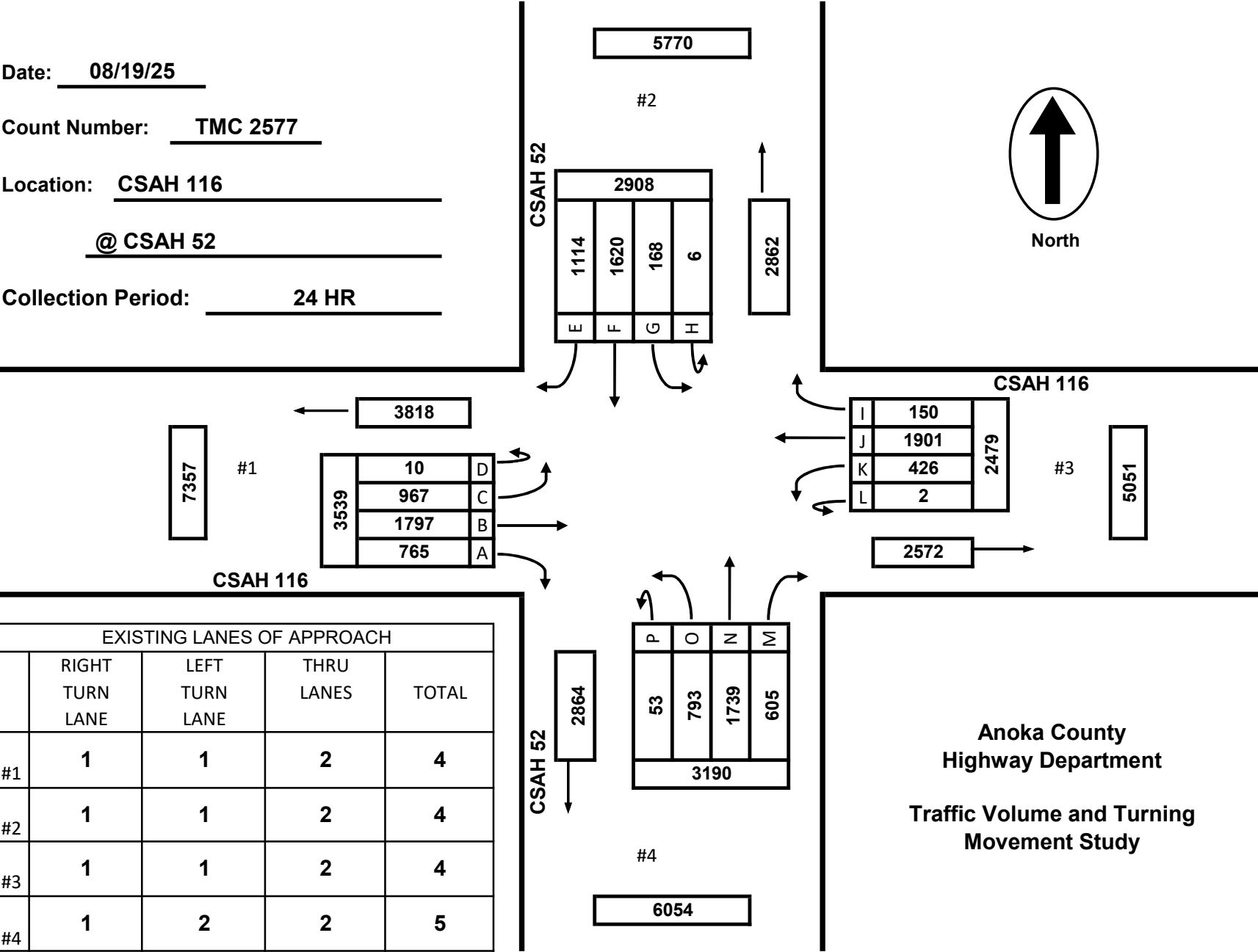


Date: 08/19/25

Count Number: TMC 2577

Location: CSAH 116  
@ CSAH 52

Collection Period: 24 HR



Date: 08/19/25

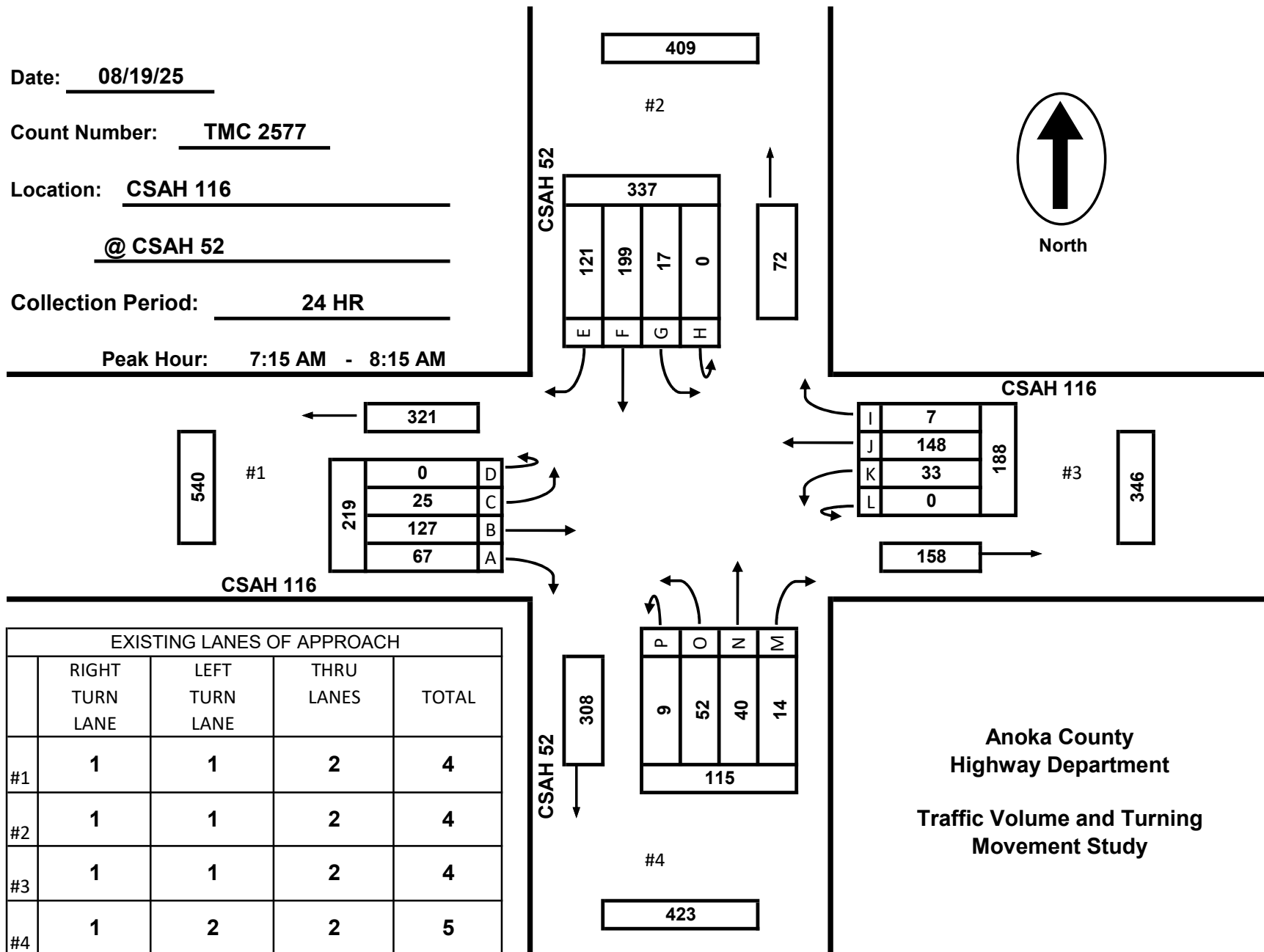
Count Number: TMC 2577

Location: CSAH 116

@ CSAH 52

Collection Period: 24 HR

Peak Hour: 7:15 AM - 8:15 AM



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

| EXISTING LANES OF APPROACH |                       |                      |               |       |
|----------------------------|-----------------------|----------------------|---------------|-------|
|                            | RIGHT<br>TURN<br>LANE | LEFT<br>TURN<br>LANE | THRU<br>LANES | TOTAL |
| #1                         | 1                     | 1                    | 2             | 4     |
| #2                         | 1                     | 1                    | 2             | 4     |
| #3                         | 1                     | 1                    | 2             | 4     |
| #4                         | 1                     | 2                    | 2             | 5     |

Date: 08/19/25

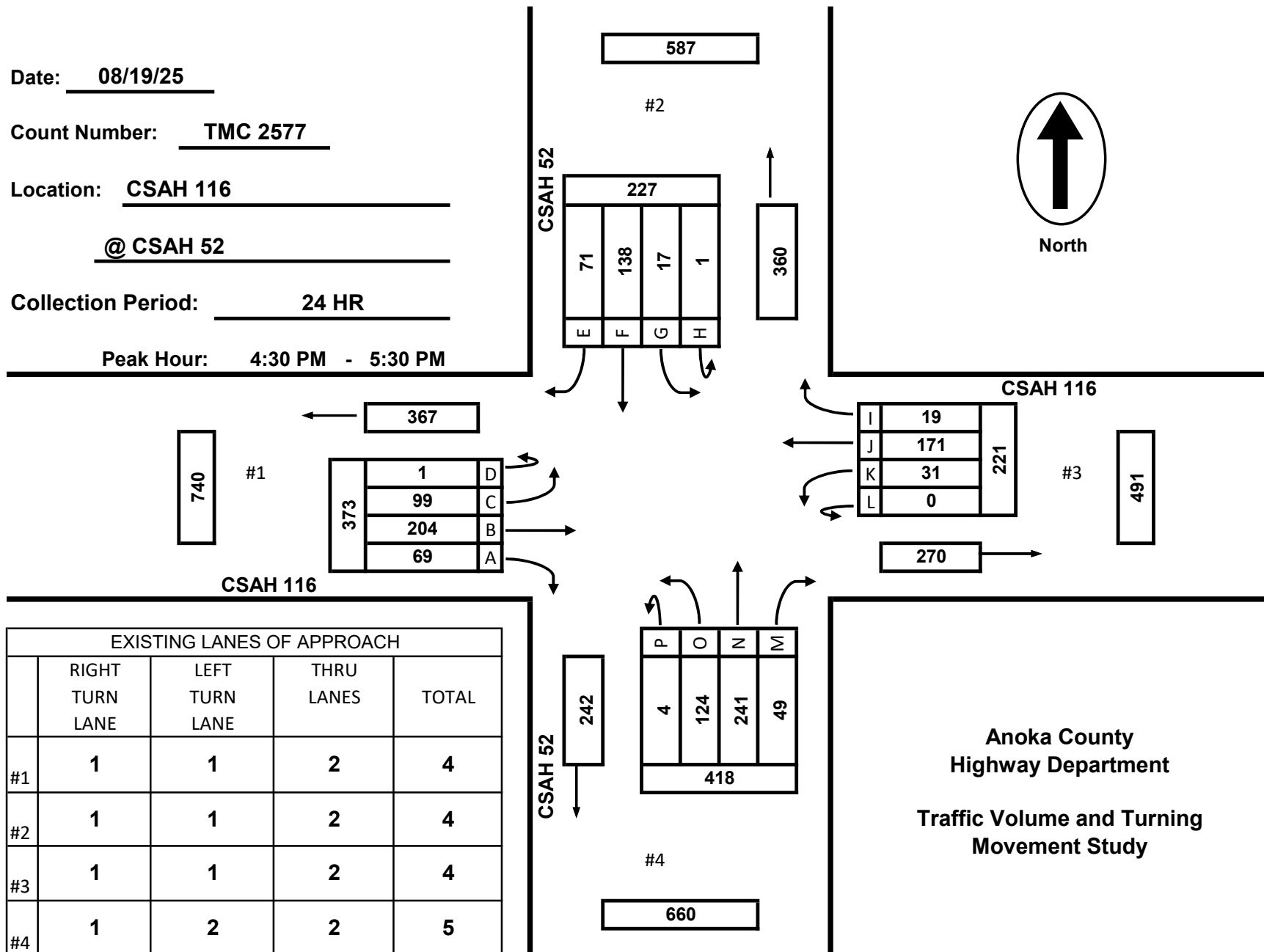
Count Number: TMC 2577

Location: CSAH 116

@ CSAH 52

Collection Period: 24 HR

Peak Hour: 4:30 PM - 5:30 PM



**TMC 2577 - CSAH 116 @ CSAH 52**  
**Ham Lake MN**  
**Tuesday, August 19, 2025**

| Time         | Southbound<br>CSAH 52 |            |                     |                |                        |                              | Westbound<br>CSAH 116 |            |                     |                |                        |                              | Northbound<br>CSAH 52 |            |                     |                |                        |                              | Eastbound<br>CSAH 116 |            |                     |                |                        |                              | 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          | 1                   | 1              | 0                      | 2                            | 1                     | 0          | 2                   | 1              | 0                      | 4                            | 0                     | 0          | 2                   | 1              | 0                      | 3                            | 0                     | 1          | 4                   | 0              | 0                      | 5                            | 14               |
| 12:15 AM     | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 1                     | 0          | 3                   | 0              | 0                      | 4                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 9                |
| 12:30 AM     | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 1                   | 1              | 0                      | 2                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 3                |
| 12:45 AM     | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 3                   | 0              | 0                      | 3                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 3                |
| Hourly Total | 0                     | 0          | 2                   | 1              | 0                      | 3                            | 2                     | 0          | 6                   | 1              | 0                      | 9                            | 0                     | 0          | 7                   | 2              | 0                      | 9                            | 0                     | 2          | 6                   | 0              | 0                      | 8                            | 29               |
| 1:00 AM      | 0                     | 0          | 0                   | 1              | 0                      | 1                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 1                |
| 1:15 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                     | 1          | 1                   | 0              | 0                      | 2                            | 5                |
| 1:30 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 1          | 0                   | 0              | 0                      | 1                            | 0                     | 1          | 0                   | 0              | 0                      | 1                            | 2                |
| 1:45 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 1                |
| Hourly Total | 0                     | 0          | 0                   | 1              | 0                      | 1                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 0                     | 2          | 1                   | 0              | 0                      | 3                            | 9                |
| 2:00 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 2          | 0                   | 0              | 0                      | 2                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 3                |
| 2:15 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 1              | 0                      | 2                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 4                |
| 2:30 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 4                |
| 2:45 AM      | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 2                |
| Hourly Total | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 3                   | 0              | 0                      | 3                            | 0                     | 2          | 2                   | 1              | 0                      | 5                            | 0                     | 0          | 5                   | 0              | 0                      | 5                            | 13               |
| 3:00 AM      | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 1          | 0                   | 0              | 0                      | 1                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 2          | 1                   | 0              | 0                      | 3                            | 5                |
| 3:15 AM      | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 1          | 0                   | 0              | 0                      | 1                            | 3                |
| 3:30 AM      | 0                     | 0          | 1                   | 1              | 0                      | 2                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 8                |
| 3:45 AM      | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 2                |
| Hourly Total | 0                     | 0          | 5                   | 1              | 0                      | 6                            | 0                     | 1          | 3                   | 0              | 0                      | 4                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 4          | 3                   | 0              | 0                      | 7                            | 18               |
| 4:00 AM      | 0                     | 0          | 2                   | 1              | 0                      | 3                            | 0                     | 1          | 3                   | 0              | 0                      | 4                            | 0                     | 0          | 0                   | 1              | 0                      | 1                            | 0                     | 1          | 0                   | 3              | 0                      | 4                            | 12               |
| 4:15 AM      | 0                     | 0          | 4                   | 0              | 0                      | 4                            | 0                     | 1          | 3                   | 0              | 0                      | 4                            | 0                     | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 1          | 1                   | 0              | 0                      | 2                            | 10               |
| 4:30 AM      | 0                     | 0          | 8                   | 8              | 0                      | 16                           | 0                     | 2          | 4                   | 0              | 0                      | 6                            | 0                     | 1          | 2                   | 1              | 0                      | 4                            | 0                     | 0          | 2                   | 2              | 0                      | 4                            | 30               |
| 4:45 AM      | 0                     | 0          | 11                  | 5              | 0                      | 16                           | 0                     | 2          | 3                   | 0              | 0                      | 5                            | 0                     | 1          | 1                   | 0              | 0                      | 2                            | 0                     | 1          | 1                   | 1              | 0                      | 3                            | 26               |
| Hourly Total | 0                     | 0          | 25                  | 14             | 0                      | 39                           | 0                     | 6          | 13                  | 0              | 0                      | 19                           | 0                     | 2          | 3                   | 2              | 0                      | 7                            | 0                     | 3          | 4                   | 6              | 0                      | 13                           | 78               |
| 5:00 AM      | 0                     | 2          | 11                  | 3              | 0                      | 16                           | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 0                     | 1          | 1                   | 0              | 0                      | 2                            | 0                     | 0          | 1                   | 1              | 0                      | 2                            | 23               |
| 5:15 AM      | 0                     | 0          | 12                  | 6              | 0                      | 18                           | 0                     | 1          | 10                  | 0              | 0                      | 11                           | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 1                   | 3              | 0                      | 4                            | 34               |
| 5:30 AM      | 0                     | 1          | 20                  | 10             | 0                      | 31                           | 0                     | 2          | 14                  | 0              | 0                      | 16                           | 0                     | 1          | 2                   | 1              | 0                      | 4                            | 0                     | 1          | 7                   | 5              | 0                      | 13                           | 64               |
| 5:45 AM      | 0                     | 2          | 21                  | 14             | 0                      | 37                           | 0                     | 9          | 8                   | 1              | 0                      | 18                           | 0                     | 3          | 0                   | 0              | 0                      | 3                            | 0                     | 2          | 5                   | 7              | 0                      | 14                           | 72               |
| Hourly Total | 0                     | 5          | 64                  | 33             | 0                      | 102                          | 0                     | 13         | 34                  | 1              | 0                      | 48                           | 0                     | 5          | 4                   | 1              | 0                      | 10                           | 0                     | 3          | 14                  | 16             | 0                      | 33                           | 193              |
| 6:00 AM      | 0                     | 2          | 37                  | 11             | 0                      | 50                           | 0                     | 6          | 12                  | 1              | 0                      | 19                           | 1                     | 3          | 3                   | 3              | 0                      | 10                           | 0                     | 1          | 9                   | 3              | 0                      | 13                           | 92               |
| 6:15 AM      | 0                     | 2          | 37                  | 23             | 0                      | 62                           | 0                     | 1          | 25                  | 0              | 0                      | 26                           | 1                     | 2          | 3                   | 1              | 0                      | 7                            | 0                     | 1          | 11                  | 9              | 1                      | 21                           | 116              |
| 6:30 AM      | 0                     | 4          | 37                  | 17             | 0                      | 58                           | 0                     | 6          | 23                  | 0              | 0                      | 29                           | 1                     | 4          | 3                   | 3              | 0                      | 11                           | 0                     | 2          | 13                  | 9              | 0                      | 24                           | 122              |
| 6:45 AM      | 0                     | 6          | 41                  | 31             | 0                      | 78                           | 0                     | 4          | 37                  | 2              | 0                      | 43                           | 1                     | 6          | 8                   | 3              | 0                      | 18                           | 0                     | 7          | 14                  | 17             | 0                      | 38                           | 177              |
| Hourly Total | 0                     | 14         | 152                 | 82             | 0                      | 248                          | 0                     | 17         | 97                  | 3              | 0                      | 117                          | 4                     | 15         | 17                  | 10             | 0                      | 46                           | 0                     | 11         | 47                  | 38             | 1                      | 96                           | 507              |
| 7:00 AM      | 0                     | 3          | 40                  | 27             | 0                      | 70                           | 0                     | 9          | 42                  | 1              | 0                      | 52                           | 1                     | 15         | 7                   | 3              | 0                      | 26                           | 0                     | 2          | 14                  | 13             | 0                      | 29                           | 177              |
| 7:15 AM      | 0                     | 3          | 49                  | 19             | 0                      | 71                           | 0                     | 7          | 33                  | 1              | 0                      | 41                           | 2                     | 9          | 7                   | 4              | 0                      | 22                           | 0                     | 7          | 44                  | 12             | 0                      | 63                           | 197              |
| 7:30 AM      | 0                     | 5          | 66                  | 33             | 0                      | 104                          | 0                     | 16         | 34                  | 3              | 0                      | 53                           | 3                     | 8          | 12                  | 5              | 0                      | 28                           | 0                     | 4          | 23                  | 20             | 1                      | 47                           | 232              |
| 7:45 AM      | 0                     | 3          | 41                  | 36             | 0                      | 80                           | 0                     | 5          | 52                  | 2              | 0                      | 59                           | 3                     | 18         | 13                  | 0              | 0                      | 34                           | 0                     | 6          | 28                  | 22             | 0                      | 56                           | 229              |
| Hourly Total | 0                     | 14         | 196                 | 115            | 0                      | 325                          | 0                     | 37         | 161                 | 7              | 0                      | 205                          | 9                     | 50         | 39                  | 12             | 0                      | 110                          | 0                     | 19         | 109                 | 67             | 1                      | 195                          | 835              |

**TMC 2577 - CSAH 116 @ CSAH 52**  
**Ham Lake MN**  
**Tuesday, August 19, 2025**

| Time         | Southbound<br>CSAH 52 |            |                     |                |                        |                              | Westbound<br>CSAH 116 |            |                     |                |                        |                              | Northbound<br>CSAH 52 |            |                     |                |                        |                              | Eastbound<br>CSAH 116 |            |                     |                |                        |                              | 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                     | 6          | 43                  | 33             | 0                      | 82                           | 0                     | 5          | 29                  | 1              | 0                      | 35                           | 1                     | 17         | 8                   | 5              | 1                      | 31                           | 0                     | 8          | 32                  | 13             | 0                      | 53                           | 201              |
| 8:15 AM      | 0                     | 5          | 33                  | 18             | 0                      | 56                           | 0                     | 6          | 31                  | 2              | 0                      | 39                           | 2                     | 12         | 17                  | 4              | 0                      | 35                           | 0                     | 7          | 19                  | 6              | 0                      | 32                           | 162              |
| 8:30 AM      | 0                     | 2          | 24                  | 27             | 0                      | 53                           | 0                     | 13         | 28                  | 0              | 0                      | 41                           | 2                     | 10         | 8                   | 3              | 0                      | 23                           | 0                     | 5          | 10                  | 9              | 0                      | 24                           | 141              |
| 8:45 AM      | 0                     | 3          | 32                  | 25             | 0                      | 60                           | 0                     | 5          | 45                  | 0              | 0                      | 50                           | 1                     | 11         | 8                   | 3              | 0                      | 23                           | 0                     | 10         | 23                  | 7              | 1                      | 40                           | 173              |
| Hourly Total | 0                     | 16         | 132                 | 103            | 0                      | 251                          | 0                     | 29         | 133                 | 3              | 0                      | 165                          | 6                     | 50         | 41                  | 15             | 1                      | 112                          | 0                     | 30         | 84                  | 35             | 1                      | 149                          | 677              |
| 9:00 AM      | 0                     | 3          | 18                  | 17             | 0                      | 38                           | 0                     | 5          | 26                  | 0              | 0                      | 31                           | 1                     | 14         | 13                  | 7              | 0                      | 35                           | 0                     | 10         | 27                  | 2              | 0                      | 39                           | 143              |
| 9:15 AM      | 0                     | 2          | 31                  | 28             | 0                      | 61                           | 0                     | 6          | 24                  | 2              | 0                      | 32                           | 0                     | 8          | 10                  | 4              | 0                      | 22                           | 0                     | 7          | 19                  | 14             | 0                      | 40                           | 155              |
| 9:30 AM      | 0                     | 3          | 25                  | 24             | 0                      | 52                           | 0                     | 4          | 35                  | 5              | 0                      | 44                           | 0                     | 9          | 11                  | 9              | 0                      | 29                           | 0                     | 13         | 21                  | 9              | 0                      | 43                           | 168              |
| 9:45 AM      | 0                     | 1          | 21                  | 17             | 0                      | 39                           | 0                     | 11         | 25                  | 4              | 0                      | 40                           | 2                     | 10         | 23                  | 7              | 0                      | 42                           | 0                     | 6          | 16                  | 6              | 1                      | 28                           | 149              |
| Hourly Total | 0                     | 9          | 95                  | 86             | 0                      | 190                          | 0                     | 26         | 110                 | 11             | 0                      | 147                          | 3                     | 41         | 57                  | 27             | 0                      | 128                          | 0                     | 36         | 83                  | 31             | 1                      | 150                          | 615              |
| 10:00 AM     | 0                     | 1          | 29                  | 14             | 0                      | 44                           | 0                     | 5          | 27                  | 0              | 0                      | 32                           | 0                     | 7          | 10                  | 8              | 0                      | 25                           | 1                     | 8          | 27                  | 12             | 0                      | 48                           | 149              |
| 10:15 AM     | 0                     | 3          | 20                  | 10             | 0                      | 33                           | 0                     | 7          | 27                  | 1              | 0                      | 35                           | 0                     | 12         | 15                  | 7              | 0                      | 34                           | 0                     | 9          | 24                  | 10             | 0                      | 43                           | 145              |
| 10:30 AM     | 0                     | 1          | 24                  | 16             | 0                      | 41                           | 0                     | 4          | 32                  | 0              | 0                      | 36                           | 0                     | 9          | 16                  | 8              | 0                      | 33                           | 0                     | 17         | 16                  | 14             | 0                      | 47                           | 157              |
| 10:45 AM     | 0                     | 1          | 29                  | 20             | 0                      | 50                           | 0                     | 7          | 30                  | 3              | 0                      | 40                           | 0                     | 11         | 20                  | 14             | 0                      | 45                           | 0                     | 9          | 24                  | 14             | 0                      | 47                           | 182              |
| Hourly Total | 0                     | 6          | 102                 | 60             | 0                      | 168                          | 0                     | 23         | 116                 | 4              | 0                      | 143                          | 0                     | 39         | 61                  | 37             | 0                      | 137                          | 1                     | 43         | 91                  | 50             | 0                      | 185                          | 633              |
| 11:00 AM     | 0                     | 0          | 30                  | 17             | 2                      | 47                           | 0                     | 5          | 21                  | 1              | 0                      | 27                           | 1                     | 3          | 13                  | 8              | 0                      | 25                           | 1                     | 8          | 29                  | 15             | 0                      | 53                           | 152              |
| 11:15 AM     | 0                     | 4          | 20                  | 14             | 0                      | 38                           | 0                     | 10         | 29                  | 3              | 0                      | 42                           | 0                     | 10         | 24                  | 10             | 0                      | 44                           | 0                     | 19         | 27                  | 12             | 0                      | 58                           | 182              |
| 11:30 AM     | 0                     | 5          | 20                  | 16             | 0                      | 41                           | 0                     | 8          | 27                  | 0              | 0                      | 35                           | 0                     | 10         | 27                  | 12             | 0                      | 49                           | 0                     | 14         | 33                  | 7              | 0                      | 54                           | 179              |
| 11:45 AM     | 0                     | 0          | 22                  | 17             | 0                      | 39                           | 0                     | 12         | 28                  | 2              | 0                      | 42                           | 0                     | 15         | 24                  | 8              | 0                      | 47                           | 0                     | 15         | 19                  | 6              | 1                      | 40                           | 168              |
| Hourly Total | 0                     | 9          | 92                  | 64             | 2                      | 165                          | 0                     | 35         | 105                 | 6              | 0                      | 146                          | 1                     | 38         | 88                  | 38             | 0                      | 165                          | 1                     | 56         | 108                 | 40             | 1                      | 205                          | 681              |
| 12:00 PM     | 0                     | 2          | 30                  | 16             | 0                      | 48                           | 0                     | 9          | 24                  | 0              | 0                      | 33                           | 1                     | 12         | 14                  | 10             | 0                      | 37                           | 0                     | 17         | 22                  | 13             | 0                      | 52                           | 170              |
| 12:15 PM     | 0                     | 0          | 30                  | 19             | 0                      | 49                           | 0                     | 6          | 25                  | 4              | 0                      | 35                           | 1                     | 5          | 23                  | 12             | 0                      | 41                           | 2                     | 15         | 20                  | 4              | 0                      | 41                           | 166              |
| 12:30 PM     | 1                     | 1          | 9                   | 9              | 0                      | 20                           | 0                     | 4          | 32                  | 0              | 0                      | 36                           | 1                     | 4          | 27                  | 13             | 0                      | 45                           | 0                     | 13         | 29                  | 12             | 2                      | 54                           | 155              |
| 12:45 PM     | 0                     | 1          | 18                  | 18             | 0                      | 37                           | 0                     | 5          | 13                  | 4              | 0                      | 22                           | 0                     | 6          | 18                  | 6              | 0                      | 30                           | 0                     | 11         | 26                  | 10             | 0                      | 47                           | 136              |
| Hourly Total | 1                     | 4          | 87                  | 62             | 0                      | 154                          | 0                     | 24         | 94                  | 8              | 0                      | 126                          | 3                     | 27         | 82                  | 41             | 0                      | 153                          | 2                     | 56         | 97                  | 39             | 2                      | 194                          | 627              |
| 1:00 PM      | 0                     | 3          | 19                  | 7              | 0                      | 29                           | 0                     | 5          | 23                  | 2              | 0                      | 30                           | 1                     | 9          | 26                  | 12             | 0                      | 48                           | 0                     | 13         | 22                  | 9              | 0                      | 44                           | 151              |
| 1:15 PM      | 0                     | 1          | 18                  | 10             | 0                      | 29                           | 0                     | 5          | 21                  | 3              | 0                      | 29                           | 1                     | 9          | 26                  | 11             | 0                      | 47                           | 2                     | 14         | 35                  | 11             | 1                      | 62                           | 167              |
| 1:30 PM      | 0                     | 2          | 22                  | 18             | 0                      | 42                           | 0                     | 7          | 34                  | 2              | 0                      | 43                           | 1                     | 12         | 35                  | 8              | 0                      | 56                           | 1                     | 8          | 26                  | 10             | 0                      | 45                           | 186              |
| 1:45 PM      | 0                     | 3          | 22                  | 20             | 0                      | 45                           | 0                     | 4          | 24                  | 0              | 0                      | 28                           | 0                     | 9          | 33                  | 4              | 0                      | 46                           | 0                     | 16         | 22                  | 10             | 1                      | 48                           | 167              |
| Hourly Total | 0                     | 9          | 81                  | 55             | 0                      | 145                          | 0                     | 21         | 102                 | 7              | 0                      | 130                          | 3                     | 39         | 120                 | 35             | 0                      | 197                          | 3                     | 51         | 105                 | 40             | 2                      | 199                          | 671              |
| 2:00 PM      | 0                     | 1          | 21                  | 17             | 0                      | 39                           | 0                     | 3          | 26                  | 4              | 0                      | 33                           | 0                     | 13         | 27                  | 12             | 0                      | 52                           | 0                     | 20         | 35                  | 17             | 2                      | 72                           | 196              |
| 2:15 PM      | 0                     | 5          | 17                  | 13             | 0                      | 35                           | 0                     | 4          | 29                  | 3              | 0                      | 36                           | 2                     | 19         | 39                  | 12             | 0                      | 72                           | 0                     | 17         | 25                  | 9              | 0                      | 51                           | 194              |
| 2:30 PM      | 0                     | 2          | 22                  | 15             | 0                      | 39                           | 0                     | 3          | 38                  | 5              | 0                      | 46                           | 1                     | 18         | 45                  | 18             | 1                      | 82                           | 0                     | 17         | 27                  | 8              | 0                      | 52                           | 219              |
| 2:45 PM      | 0                     | 1          | 18                  | 20             | 0                      | 39                           | 0                     | 6          | 40                  | 2              | 0                      | 48                           | 0                     | 19         | 35                  | 5              | 0                      | 59                           | 0                     | 23         | 34                  | 16             | 0                      | 73                           | 219              |
| Hourly Total | 0                     | 9          | 78                  | 65             | 0                      | 152                          | 0                     | 16         | 133                 | 14             | 0                      | 163                          | 3                     | 69         | 146                 | 47             | 1                      | 265                          | 0                     | 77         | 121                 | 50             | 2                      | 248                          | 828              |
| 3:00 PM      | 0                     | 4          | 23                  | 13             | 0                      | 40                           | 0                     | 6          | 32                  | 3              | 0                      | 41                           | 1                     | 19         | 43                  | 12             | 0                      | 75                           | 0                     | 17         | 37                  | 11             | 0                      | 65                           | 221              |
| 3:15 PM      | 1                     | 1          | 21                  | 17             | 0                      | 40                           | 0                     | 8          | 39                  | 4              | 0                      | 51                           | 1                     | 19         | 51                  | 17             | 0                      | 88                           | 2                     | 30         | 43                  | 15             | 0                      | 90                           | 269              |
| 3:30 PM      | 0                     | 6          | 22                  | 17             | 0                      | 45                           | 0                     | 6          | 35                  | 3              | 0                      | 44                           | 1                     | 30         | 54                  | 19             | 0                      | 104                          | 0                     | 22         | 43                  | 20             | 0                      | 85                           | 278              |
| 3:45 PM      | 0                     | 2          | 18                  | 17             | 0                      | 37                           | 0                     | 7          | 46                  | 7              | 0                      | 60                           | 0                     | 25         | 44                  | 11             | 0                      | 80                           | 0                     | 21         | 63                  | 19             | 0                      | 103                          | 280              |
| Hourly Total | 1                     | 13         | 84                  | 64             | 0                      | 162                          | 0                     | 27         | 152                 | 17             | 0                      | 196                          | 3                     | 93         | 192                 | 59             | 0                      | 347                          | 2                     | 90         | 186                 | 65             | 0                      | 343                          | 1048             |

**TMC 2577 - CSAH 116 @ CSAH 52**  
**Ham Lake MN**  
**Tuesday, August 19, 2025**

| Time                   | Southbound<br>CSAH 52 |            |                     |                |                        |                              | Westbound<br>CSAH 116 |            |                     |                |                        |                              | Northbound<br>CSAH 52 |            |                     |                |                        |                              | Eastbound<br>CSAH 116 |            |                     |                |                        |                              | 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                | 0                     | 8          | 23                  | 16             | 0                      | 47                           | 0                     | 7          | 43                  | 3              | 0                      | 53                           | 1                     | 25         | 55                  | 16             | 0                      | 97                           | 0                     | 25         | 38                  | 18             | 0                      | 81                           | 278              |
| 4:15 PM                | 0                     | 2          | 28                  | 20             | 0                      | 50                           | 0                     | 6          | 49                  | 4              | 0                      | 59                           | 5                     | 20         | 64                  | 20             | 0                      | 109                          | 0                     | 25         | 41                  | 16             | 0                      | 82                           | 300              |
| 4:30 PM                | 0                     | 5          | 32                  | 17             | 0                      | 54                           | 0                     | 5          | 45                  | 6              | 0                      | 56                           | 1                     | 36         | 53                  | 14             | 0                      | 104                          | 0                     | 16         | 51                  | 26             | 0                      | 93                           | 307              |
| 4:45 PM                | 0                     | 3          | 25                  | 12             | 0                      | 40                           | 0                     | 5          | 40                  | 5              | 0                      | 50                           | 1                     | 21         | 66                  | 11             | 0                      | 99                           | 0                     | 25         | 47                  | 17             | 0                      | 89                           | 278              |
| Hourly Total           | 0                     | 18         | 108                 | 65             | 0                      | 191                          | 0                     | 23         | 177                 | 18             | 0                      | 218                          | 8                     | 102        | 238                 | 61             | 0                      | 409                          | 0                     | 91         | 177                 | 77             | 0                      | 345                          | 1163             |
| 5:00 PM                | 1                     | 5          | 52                  | 19             | 0                      | 77                           | 0                     | 14         | 43                  | 3              | 0                      | 60                           | 1                     | 26         | 59                  | 16             | 0                      | 102                          | 1                     | 29         | 57                  | 11             | 0                      | 98                           | 337              |
| 5:15 PM                | 0                     | 4          | 29                  | 23             | 0                      | 56                           | 0                     | 7          | 43                  | 5              | 0                      | 55                           | 1                     | 41         | 63                  | 8              | 0                      | 113                          | 0                     | 29         | 49                  | 15             | 1                      | 93                           | 317              |
| 5:30 PM                | 0                     | 2          | 25                  | 17             | 0                      | 44                           | 0                     | 6          | 36                  | 3              | 0                      | 45                           | 0                     | 27         | 53                  | 21             | 0                      | 101                          | 0                     | 21         | 33                  | 15             | 0                      | 69                           | 259              |
| 5:45 PM                | 0                     | 2          | 13                  | 13             | 0                      | 28                           | 0                     | 11         | 36                  | 3              | 0                      | 50                           | 0                     | 12         | 48                  | 10             | 2                      | 70                           | 0                     | 22         | 28                  | 19             | 0                      | 69                           | 217              |
| Hourly Total           | 1                     | 13         | 119                 | 72             | 0                      | 205                          | 0                     | 38         | 158                 | 14             | 0                      | 210                          | 2                     | 106        | 223                 | 55             | 2                      | 386                          | 1                     | 101        | 167                 | 60             | 1                      | 329                          | 1130             |
| 6:00 PM                | 1                     | 3          | 18                  | 20             | 0                      | 42                           | 0                     | 11         | 27                  | 2              | 0                      | 40                           | 2                     | 21         | 47                  | 10             | 0                      | 80                           | 0                     | 31         | 27                  | 12             | 0                      | 70                           | 232              |
| 6:15 PM                | 0                     | 1          | 15                  | 19             | 0                      | 35                           | 0                     | 6          | 28                  | 0              | 0                      | 34                           | 0                     | 9          | 35                  | 14             | 0                      | 58                           | 0                     | 24         | 25                  | 15             | 0                      | 64                           | 191              |
| 6:30 PM                | 0                     | 3          | 15                  | 18             | 0                      | 36                           | 0                     | 5          | 25                  | 2              | 0                      | 32                           | 0                     | 5          | 33                  | 9              | 0                      | 47                           | 0                     | 11         | 33                  | 10             | 0                      | 54                           | 169              |
| 6:45 PM                | 1                     | 1          | 16                  | 17             | 0                      | 35                           | 0                     | 9          | 19                  | 0              | 0                      | 28                           | 0                     | 8          | 20                  | 20             | 3                      | 48                           | 0                     | 24         | 32                  | 9              | 1                      | 65                           | 176              |
| Hourly Total           | 2                     | 8          | 64                  | 74             | 0                      | 148                          | 0                     | 31         | 99                  | 4              | 0                      | 134                          | 2                     | 43         | 135                 | 53             | 3                      | 233                          | 0                     | 90         | 117                 | 46             | 1                      | 253                          | 768              |
| 7:00 PM                | 0                     | 1          | 16                  | 8              | 0                      | 25                           | 0                     | 3          | 17                  | 3              | 0                      | 23                           | 1                     | 4          | 29                  | 12             | 0                      | 46                           | 0                     | 16         | 24                  | 8              | 2                      | 48                           | 142              |
| 7:15 PM                | 0                     | 4          | 15                  | 15             | 0                      | 34                           | 0                     | 7          | 24                  | 3              | 0                      | 34                           | 0                     | 15         | 31                  | 7              | 0                      | 53                           | 0                     | 15         | 19                  | 9              | 1                      | 43                           | 164              |
| 7:30 PM                | 1                     | 1          | 13                  | 6              | 0                      | 21                           | 0                     | 7          | 17                  | 1              | 0                      | 25                           | 0                     | 5          | 25                  | 9              | 0                      | 39                           | 0                     | 21         | 25                  | 8              | 0                      | 54                           | 139              |
| 7:45 PM                | 0                     | 3          | 14                  | 5              | 0                      | 22                           | 0                     | 8          | 19                  | 5              | 0                      | 32                           | 0                     | 7          | 29                  | 9              | 0                      | 45                           | 0                     | 24         | 24                  | 11             | 1                      | 59                           | 158              |
| Hourly Total           | 1                     | 9          | 58                  | 34             | 0                      | 102                          | 0                     | 25         | 77                  | 12             | 0                      | 114                          | 1                     | 31         | 114                 | 37             | 0                      | 183                          | 0                     | 76         | 92                  | 36             | 4                      | 204                          | 603              |
| 8:00 PM                | 0                     | 2          | 16                  | 9              | 0                      | 27                           | 0                     | 5          | 21                  | 4              | 0                      | 30                           | 1                     | 9          | 16                  | 11             | 0                      | 37                           | 0                     | 14         | 19                  | 6              | 0                      | 39                           | 133              |
| 8:15 PM                | 0                     | 0          | 5                   | 5              | 0                      | 10                           | 0                     | 4          | 16                  | 2              | 0                      | 22                           | 0                     | 5          | 22                  | 8              | 1                      | 35                           | 0                     | 14         | 17                  | 7              | 0                      | 38                           | 105              |
| 8:30 PM                | 0                     | 0          | 15                  | 9              | 0                      | 24                           | 0                     | 6          | 12                  | 1              | 0                      | 19                           | 1                     | 5          | 18                  | 6              | 0                      | 30                           | 0                     | 18         | 21                  | 13             | 0                      | 52                           | 125              |
| 8:45 PM                | 0                     | 2          | 7                   | 6              | 0                      | 15                           | 0                     | 3          | 9                   | 1              | 0                      | 13                           | 0                     | 5          | 19                  | 7              | 0                      | 31                           | 0                     | 20         | 27                  | 5              | 0                      | 52                           | 111              |
| Hourly Total           | 0                     | 4          | 43                  | 29             | 0                      | 76                           | 0                     | 18         | 58                  | 8              | 0                      | 84                           | 2                     | 24         | 75                  | 32             | 1                      | 133                          | 0                     | 66         | 84                  | 31             | 0                      | 181                          | 474              |
| 9:00 PM                | 0                     | 3          | 7                   | 5              | 0                      | 15                           | 0                     | 3          | 9                   | 3              | 0                      | 15                           | 1                     | 1          | 13                  | 8              | 0                      | 23                           | 0                     | 7          | 13                  | 5              | 0                      | 25                           | 78               |
| 9:15 PM                | 0                     | 0          | 5                   | 6              | 0                      | 11                           | 0                     | 1          | 4                   | 1              | 0                      | 6                            | 0                     | 3          | 8                   | 9              | 0                      | 20                           | 0                     | 7          | 15                  | 9              | 0                      | 31                           | 68               |
| 9:30 PM                | 0                     | 1          | 4                   | 6              | 0                      | 11                           | 0                     | 3          | 13                  | 0              | 0                      | 16                           | 1                     | 2          | 12                  | 3              | 0                      | 18                           | 0                     | 14         | 18                  | 7              | 0                      | 39                           | 84               |
| 9:45 PM                | 0                     | 0          | 6                   | 5              | 0                      | 11                           | 0                     | 4          | 8                   | 1              | 0                      | 13                           | 1                     | 3          | 5                   | 1              | 0                      | 10                           | 0                     | 2          | 9                   | 5              | 0                      | 16                           | 50               |
| Hourly Total           | 0                     | 4          | 22                  | 22             | 0                      | 48                           | 0                     | 11         | 34                  | 5              | 0                      | 50                           | 3                     | 9          | 38                  | 21             | 0                      | 71                           | 0                     | 30         | 55                  | 26             | 0                      | 111                          | 280              |
| 10:00 PM               | 0                     | 1          | 2                   | 1              | 0                      | 4                            | 0                     | 1          | 11                  | 1              | 0                      | 13                           | 0                     | 2          | 17                  | 5              | 0                      | 24                           | 0                     | 9          | 11                  | 6              | 0                      | 26                           | 67               |
| 10:15 PM               | 0                     | 1          | 2                   | 2              | 0                      | 5                            | 0                     | 1          | 7                   | 3              | 0                      | 11                           | 0                     | 1          | 12                  | 5              | 0                      | 18                           | 0                     | 2          | 6                   | 2              | 0                      | 10                           | 44               |
| 10:30 PM               | 0                     | 0          | 3                   | 4              | 0                      | 7                            | 0                     | 0          | 5                   | 1              | 0                      | 6                            | 0                     | 2          | 9                   | 1              | 0                      | 12                           | 0                     | 10         | 5                   | 2              | 0                      | 17                           | 42               |
| 10:45 PM               | 0                     | 0          | 4                   | 2              | 0                      | 6                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                     | 0          | 5                   | 3              | 0                      | 8                            | 0                     | 2          | 6                   | 2              | 0                      | 10                           | 25               |
| Hourly Total           | 0                     | 2          | 11                  | 9              | 0                      | 22                           | 0                     | 2          | 24                  | 5              | 0                      | 31                           | 0                     | 5          | 43                  | 14             | 0                      | 62                           | 0                     | 23         | 28                  | 12             | 0                      | 63                           | 178              |
| 11:00 PM               | 0                     | 1          | 0                   | 0              | 0                      | 1                            | 0                     | 1          | 0                   | 2              | 0                      | 3                            | 0                     | 1          | 4                   | 0              | 0                      | 5                            | 0                     | 2          | 4                   | 0              | 0                      | 6                            | 15               |
| 11:15 PM               | 0                     | 0          | 0                   | 1              | 0                      | 1                            | 0                     | 2          | 2                   | 0              | 0                      | 4                            | 0                     | 0          | 2                   | 1              | 0                      | 3                            | 0                     | 1          | 4                   | 0              | 0                      | 5                            | 13               |
| 11:30 PM               | 0                     | 0          | 0                   | 2              | 0                      | 2                            | 0                     | 0          | 6                   | 0              | 0                      | 6                            | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 0                     | 1          | 3                   | 0              | 0                      | 4                            | 15               |
| 11:45 PM               | 0                     | 1          | 0                   | 0              | 0                      | 1                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                     | 0          | 3                   | 4              | 0                      | 7                            | 0                     | 3          | 2                   | 0              | 0                      | 5                            | 15               |
| Hourly Total           | 0                     | 2          | 0                   | 3              | 0                      | 5                            | 0                     | 3          | 10                  | 2              | 0                      | 15                           | 0                     | 2          | 11                  | 5              | 0                      | 18                           | 0                     | 7          | 13                  | 0              | 0                      | 20                           | 58               |
| <b>DAILY TOTAL</b>     | <b>6</b>              | <b>168</b> | <b>1620</b>         | <b>1114</b>    | <b>2</b>               | <b>2908</b>                  | <b>2</b>              | <b>426</b> | <b>1901</b>         | <b>150</b>     | <b>0</b>               | <b>2479</b>                  | <b>53</b>             | <b>793</b> | <b>1739</b>         | <b>605</b>     | <b>8</b>               | <b>3190</b>                  | <b>10</b>             | <b>967</b> | <b>1797</b>         | <b>765</b>     | <b>17</b>              | <b>3539</b>                  | <b>12116</b>     |
| <b>Cars</b>            | 5                     | 163        | 1602                | 1103           | 0                      | 2873                         | 2                     | 423        | 1861                | 145            | 0                      | 2431                         | 53                    | 756        | 1729                | 601            | 3                      | 3139                         | 9                     | 959        | 1763                | 731            | 11                     | 3462                         | 11905            |
| <b>Heavy Vehicles</b>  | 1                     | 5          | 18                  | 11             | 2                      | 35                           | 0                     | 3          | 40                  | 5              | 0                      | 48                           | 0                     | 37         | 10                  | 4              | 5                      | 51                           | 1                     | 8          | 34                  | 34             | 6                      | 77                           | 211              |
| <b>Heavy Vehicle %</b> | 16.67%                | 2.98%      | 1.11%               | 0.99%          | 100.00%                | 1.20%                        | 0.00%                 | 0.70%      | 2.10%               | 3.33%          | 0.00%                  | 1.94%                        | 0.00%                 | 4.67%      | 0.58%               | 0.66%          | 62.50%                 | 1.60%                        | 10.00%                | 0.83%      | 1.89%               | 4.44%          | 35.29%                 | 2.18%                        | 1.74%            |

**TMC 2577 - CSAH 116 @ CSAH 52**  
**Ham Lake MN**  
**Tuesday, August 19, 2025**  
**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 |               |
| 7:15 AM                        | 0          | 3          | 49               | 19          | 0                   | 71                     | 0         | 7          | 33               | 1           | 0                   | 41                     | 2          | 9          | 7                | 4           | 0                   | 22                     | 0         | 7          | 44               | 12          | 0                   | 63                     | 197           |
| 7:30 AM                        | 0          | 5          | 66               | 33          | 0                   | 104                    | 0         | 16         | 34               | 3           | 0                   | 53                     | 3          | 8          | 12               | 5           | 0                   | 28                     | 0         | 4          | 23               | 20          | 1                   | 47                     | 232           |
| 7:45 AM                        | 0          | 3          | 41               | 36          | 0                   | 80                     | 0         | 5          | 52               | 2           | 0                   | 59                     | 3          | 18         | 13               | 0           | 0                   | 34                     | 0         | 6          | 28               | 22          | 0                   | 56                     | 229           |
| 8:00 AM                        | 0          | 6          | 43               | 33          | 0                   | 82                     | 0         | 5          | 29               | 1           | 0                   | 35                     | 1          | 17         | 8                | 5           | 1                   | 31                     | 0         | 8          | 32               | 13          | 0                   | 53                     | 201           |
| Peak Hour Total                | 0          | 17         | 199              | 121         | 0                   | 337                    | 0         | 33         | 148              | 7           | 0                   | 188                    | 9          | 52         | 40               | 14          | 1                   | 115                    | 0         | 25         | 127              | 67          | 1                   | 219                    | 859           |
| Peak Hour Heavy Vehicles       | 0          | 1          | 2                | 0           | 0                   | 3                      | 0         | 0          | 8                | 0           | 0                   | 8                      | 0          | 1          | 0                | 0           | 0                   | 1                      | 0         | 0          | 5                | 3           | 0                   | 8                      | 20            |
| Peak Hour Heavy Vehicles % PHF | 0.00%      | 5.88%      | 1.01%            | 0.00%       | 0.00%               | 0.89%                  | 0.00%     | 0.00%      | 5.41%            | 0.00%       | 0.00%               | 4.26%                  | 0.00%      | 1.92%      | 0.00%            | 0.00%       | 0.00%               | 0.87%                  | 0.00%     | 0.00%      | 3.94%            | 4.48%       | 0.00%               | 3.65%                  | 2.33%         |
|                                | 0.000      | 0.708      | 0.754            | 0.840       | 0.000               | 0.810                  | 0.000     | 0.516      | 0.712            | 0.583       | 0.000               | 0.797                  | 0.750      | 0.722      | 0.769            | 0.700       | 0.250               | 0.846                  | 0.000     | 0.781      | 0.722            | 0.761       | 0.250               | 0.869                  | 0.926         |

**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          | 4          | 20               | 14          | 0                   | 38                     | 0         | 10         | 29               | 3           | 0                   | 42                     | 0          | 10         | 24               | 10          | 0                   | 44                     | 0         | 19         | 27               | 12          | 0                   | 58                     | 182           |
| 11:30 AM                       | 0          | 5          | 20               | 16          | 0                   | 41                     | 0         | 8          | 27               | 0           | 0                   | 35                     | 0          | 10         | 27               | 12          | 0                   | 49                     | 0         | 14         | 33               | 7           | 0                   | 54                     | 179           |
| 11:45 AM                       | 0          | 0          | 22               | 17          | 0                   | 39                     | 0         | 12         | 28               | 2           | 0                   | 42                     | 0          | 15         | 24               | 8           | 0                   | 47                     | 0         | 15         | 19               | 6           | 1                   | 40                     | 168           |
| 12:00 PM                       | 0          | 2          | 30               | 16          | 0                   | 48                     | 0         | 9          | 24               | 0           | 0                   | 33                     | 1          | 12         | 14               | 10          | 0                   | 37                     | 0         | 17         | 22               | 13          | 0                   | 52                     | 170           |
| Peak Hour Total                | 0          | 11         | 92               | 63          | 0                   | 166                    | 0         | 39         | 108              | 5           | 0                   | 152                    | 1          | 47         | 89               | 40          | 0                   | 177                    | 0         | 65         | 101              | 38          | 1                   | 204                    | 699           |
| Peak Hour Heavy Vehicles       | 0          | 0          | 4                | 1           | 0                   | 5                      | 0         | 2          | 4                | 0           | 0                   | 6                      | 0          | 3          | 4                | 1           | 0                   | 8                      | 0         | 1          | 3                | 1           | 0                   | 5                      | 24            |
| Peak Hour Heavy Vehicles % PHF | 0.00%      | 0.00%      | 4.35%            | 1.59%       | 0.00%               | 3.01%                  | 0.00%     | 5.13%      | 3.70%            | 0.00%       | 0.00%               | 3.95%                  | 0.00%      | 6.38%      | 4.49%            | 2.50%       | 0.00%               | 4.52%                  | 0.00%     | 1.54%      | 2.97%            | 2.63%       | 0.00%               | 2.45%                  | 3.43%         |
|                                | 0.000      | 0.550      | 0.767            | 0.926       | 0.000               | 0.865                  | 0.000     | 0.813      | 0.931            | 0.417       | 0.000               | 0.905                  | 0.250      | 0.783      | 0.824            | 0.833       | 0.000               | 0.903                  | 0.000     | 0.855      | 0.765            | 0.731       | 0.250               | 0.879                  | 0.960         |

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

|                                | Southbound |            |                  |             |                     |                        | Westbound |            |                  |             |                     |                        | Northbound |            |                  |             |                     |                        | Eastbound |            |                  |             |                     |                        |               |
|--------------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|---------------|
| Time                           | 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 | VEHICLE TOTAL |
| 4:30 PM                        | 0          | 5          | 32               | 17          | 0                   | 54                     | 0         | 5          | 45               | 6           | 0                   | 56                     | 1          | 36         | 53               | 14          | 0                   | 104                    | 0         | 16         | 51               | 26          | 0                   | 93                     | 307           |
| 4:45 PM                        | 0          | 3          | 25               | 12          | 0                   | 40                     | 0         | 5          | 40               | 5           | 0                   | 50                     | 1          | 21         | 66               | 11          | 0                   | 99                     | 0         | 25         | 47               | 17          | 0                   | 89                     | 278           |
| 5:00 PM                        | 1          | 5          | 52               | 19          | 0                   | 77                     | 0         | 14         | 43               | 3           | 0                   | 60                     | 1          | 26         | 59               | 16          | 0                   | 102                    | 1         | 29         | 57               | 11          | 0                   | 98                     | 337           |
| 5:15 PM                        | 0          | 4          | 29               | 23          | 0                   | 56                     | 0         | 7          | 43               | 5           | 0                   | 55                     | 1          | 41         | 63               | 8           | 0                   | 113                    | 0         | 29         | 49               | 15          | 1                   | 93                     | 317           |
| Peak Hour Total                | 1          | 17         | 138              | 71          | 0                   | 227                    | 0         | 31         | 171              | 19          | 0                   | 221                    | 4          | 124        | 241              | 49          | 0                   | 418                    | 1         | 99         | 204              | 69          | 1                   | 373                    | 1239          |
| Peak Hour Heavy Vehicles       | 1          | 0          | 1                | 2           | 0                   | 4                      | 0         | 0          | 2                | 1           | 0                   | 3                      | 0          | 0          | 1                | 0           | 0                   | 1                      | 0         | 0          | 0                | 1           | 0                   | 0                      | 8             |
| Peak Hour Heavy Vehicles % PHF | 100.00%    | 0.00%      | 0.72%            | 2.82%       | 0.00%               | 1.76%                  | 0.00%     | 0.00%      | 1.17%            | 5.26%       | 0.00%               | 1.36%                  | 0.00%      | 0.00%      | 0.41%            | 0.00%       | 0.00%               | 0.24%                  | 0.00%     | 0.00%      | 0.00%            | 100.00%     | 0.00%               | 0.65%                  |               |
|                                | 0.250      | 0.850      | 0.663            | 0.772       | 0.000               | 0.737                  | 0.000     | 0.554      | 0.950            | 0.792       | 0.000               | 0.921                  | 1.000      | 0.756      | 0.913            | 0.766       | 0.000               | 0.925                  | 0.250     | 0.853      | 0.895            | 0.663       | 0.250               | 0.952                  | 0.919         |

|                                     |      |      |                                    |   |   |
|-------------------------------------|------|------|------------------------------------|---|---|
| Total Vehicles On Leg               |      |      | 5770                               |   |   |
| Vehicles Entering Intersection 2908 |      |      | Vehicles Exiting Intersection 2862 |   |   |
| Southbound                          |      |      |                                    |   |   |
| Cars                                | 1103 | 1602 | 163                                | 5 | 0 |
| Heavy                               | 11   | 18   | 5                                  | 1 | 2 |
| Total                               | 1114 | 1620 | 168                                | 6 | 2 |



|                            |                                     |           |      |       |       |
|----------------------------|-------------------------------------|-----------|------|-------|-------|
| Total Vehicles on Leg 7357 | Vehicles Entering Intersection 3539 | Eastbound | Cars | Heavy | Total |
|                            | Vehicles Exiting Intersection 3818  |           | 11   | 6     | 17    |
|                            |                                     |           | 9    | 1     | 10    |
|                            |                                     |           | 959  | 8     | 967   |
|                            |                                     |           | 1763 | 34    | 1797  |
|                            |                                     |           | 731  | 34    | 765   |



Daily Volumes

|      |       |       |           |                                     |                            |
|------|-------|-------|-----------|-------------------------------------|----------------------------|
| Cars | Heavy | Total | Westbound | Vehicles Entering Intersection 2479 | Total Vehicles on Leg 5051 |
| 145  | 5     | 150   |           |                                     |                            |
| 1861 | 40    | 1901  |           |                                     |                            |
| 423  | 3     | 426   |           | Vehicles Exiting Intersection 2572  |                            |
| 2    | 0     | 2     |           |                                     |                            |
| 0    | 0     | 0     |           |                                     |                            |

|                                     |   |    |                                    |      |     |
|-------------------------------------|---|----|------------------------------------|------|-----|
| Cars                                | 3 | 53 | 756                                | 1729 | 601 |
| Heavy                               | 5 | 0  | 37                                 | 10   | 4   |
| Total                               | 8 | 53 | 793                                | 1739 | 605 |
| Northbound                          |   |    |                                    |      |     |
| Vehicles Entering Intersection 3190 |   |    | Vehicles Exiting Intersection 2864 |      |     |
| Total Vehicles On Leg               |   |    | 6054                               |      |     |



TMC 2577 - CSAH 116 @ CSAH 52  
Ham Lake MN  
Tuesday, August 19, 2025

| Time                    | Southbound Heavy<br>CSAH 52 |            |                     |                |                        |                              | Westbound Heavy<br>CSAH 116 |            |                     |                |                        |                              | Northbound Heavy<br>CSAH 52 |            |                     |                |                        |                              | Eastbound Heavy<br>CSAH 116 |            |                     |                |                        |                              | 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                           | 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                   | 0              | 0                      | 0                            | 0                |
| 1:00 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                |
| 1:15 AM                 | 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                |
| 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          | 1                   | 0              | 0                      | 1                            | 1                |
| 2:00 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                |
| 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                   | 0              | 0                      | 0                            | 0                |
| 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              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 3:00 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                |
| 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                           | 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                   | 0              | 0                      | 0                            | 0                |
| 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          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 4:45 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                   | 0              | 0                      | 0                            | 0                |
| 5:00 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                |
| 5:15 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                |
| 5:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 1                |
| 5:45 AM                 | 0                           | 0          | 0                   | 1              | 0                      | 1                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 1                |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 1              | 0                      | 1                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 2                |
| 6:00 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 2                   | 0              | 0                      | 2                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 3                |
| 6:15 AM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 2                |
| 6:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 3                |
| 6:45 AM                 | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 2                |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 2                   | 0              | 0                      | 3                            | 0                           | 0          | 3                   | 0              | 0                      | 3                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                           | 1          | 2                   | 0              | 0                      | 3                            | 10               |
| 7:00 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 1              | 0                      | 1                            | 2                |
| 7:15 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                           | 0          | 2                   | 0              | 0                      | 2                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 4                |
| 7:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 1              | 0                      | 1                            | 1                |
| 7:45 AM                 | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 0                           | 0          | 3                   | 0              | 0                      | 3                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 2              | 0                      | 3                            | 7                |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 2                   | 0              | 0                      | 3                            | 0                           | 0          | 5                   | 0              | 0                      | 5                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 2                   | 4              | 0                      | 6                            | 14               |

TMC 2577 - CSAH 116 @ CSAH 52  
Ham Lake MN  
Tuesday, August 19, 2025

| Time                    | Southbound Heavy<br>CSAH 52 |            |                     |                |                        |                                                      | Westbound Heavy<br>CSAH 116 |            |                     |                |                        |                                                      | Northbound Heavy<br>CSAH 52 |            |                     |                |                        |                                                      | Eastbound Heavy<br>CSAH 116 |            |                     |                |                        |                                                      | VEHICLE<br>'Heavy<br>Vehicles' |
|-------------------------|-----------------------------|------------|---------------------|----------------|------------------------|------------------------------------------------------|-----------------------------|------------|---------------------|----------------|------------------------|------------------------------------------------------|-----------------------------|------------|---------------------|----------------|------------------------|------------------------------------------------------|-----------------------------|------------|---------------------|----------------|------------------------|------------------------------------------------------|--------------------------------|
|                         | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | <i>Vehicle<br/>Approach<br/>'Heavy<br/>Vehicles'</i> | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | <i>Vehicle<br/>Approach<br/>'Heavy<br/>Vehicles'</i> | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | <i>Vehicle<br/>Approach<br/>'Heavy<br/>Vehicles'</i> | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | <i>Vehicle<br/>Approach<br/>'Heavy<br/>Vehicles'</i> |                                |
| 8:00 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 3                   | 0              | 0                      | 3                                                    | 0                           | 1          | 0                   | 0              | 1                      | 1                                                    | 0                           | 0          | 3                   | 0              | 0                      | 3                                                    | 8                              |
| 8:15 AM                 | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 2          | 0                   | 0              | 0                      | 2                                                    | 0                           | 0          | 2                   | 1              | 0                      | 3                                                    | 6                              |
| 8:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 3                              |
| 8:45 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 3                   | 0              | 0                      | 3                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 3                              |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 1                   | 0              | 0                      | 2                                                    | 0                           | 0          | 8                   | 0              | 0                      | 8                                                    | 0                           | 3          | 0                   | 0              | 1                      | 3                                                    | 0                           | 0          | 5                   | 2              | 0                      | 7                                                    | 20                             |
| 9:00 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 3          | 0                   | 0              | 0                      | 3                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 5                              |
| 9:15 AM                 | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 2          | 1                   | 0              | 0                      | 3                                                    | 0                           | 0          | 2                   | 1              | 0                      | 3                                                    | 7                              |
| 9:30 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 3                   | 1              | 0                      | 4                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 6                              |
| 9:45 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 4                              |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 3                   | 0              | 0                      | 4                                                    | 0                           | 0          | 3                   | 2              | 0                      | 5                                                    | 0                           | 6          | 1                   | 0              | 0                      | 7                                                    | 0                           | 0          | 3                   | 3              | 0                      | 6                                                    | 22                             |
| 10:00 AM                | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 0                           | 2          | 0                   | 0              | 0                      | 2                                                    | 0                           | 1          | 1                   | 2              | 0                      | 4                                                    | 9                              |
| 10:15 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 3                              |
| 10:30 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 1          | 1                   | 1              | 0                      | 3                                                    | 4                              |
| 10:45 AM                | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 1                              |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 0                           | 0          | 4                   | 0              | 0                      | 4                                                    | 0                           | 3          | 0                   | 0              | 0                      | 3                                                    | 0                           | 2          | 2                   | 4              | 0                      | 8                                                    | 17                             |
| 11:00 AM                | 0                           | 0          | 0                   | 1              | 2                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 3                   | 1              | 0                      | 4                                                    | 6                              |
| 11:15 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 1          | 2                   | 0              | 0                      | 3                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 3                              |
| 11:30 AM                | 0                           | 0          | 1                   | 1              | 0                      | 2                                                    | 0                           | 1          | 1                   | 0              | 0                      | 2                                                    | 0                           | 1          | 1                   | 1              | 0                      | 3                                                    | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 9                              |
| 11:45 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 1          | 1                   | 0              | 0                      | 2                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 4                              |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 1                   | 2              | 2                      | 3                                                    | 0                           | 2          | 2                   | 0              | 0                      | 4                                                    | 0                           | 2          | 5                   | 1              | 0                      | 8                                                    | 0                           | 0          | 5                   | 2              | 0                      | 7                                                    | 22                             |
| 12:00 PM                | 0                           | 0          | 3                   | 0              | 0                      | 3                                                    | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 1          | 1                   | 0              | 0                      | 2                                                    | 8                              |
| 12:15 PM                | 0                           | 0          | 0                   | 2              | 0                      | 2                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 2          | 0                   | 0              | 0                      | 2                                                    | 4                              |
| 12:30 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 1          | 1                   | 1              | 0                      | 3                                                    | 0                           | 0          | 0                   | 1              | 2                      | 1                                                    | 4                              |
| 12:45 PM                | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 3                              |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 3                   | 3              | 0                      | 6                                                    | 0                           | 0          | 3                   | 0              | 0                      | 3                                                    | 0                           | 2          | 1                   | 1              | 0                      | 4                                                    | 0                           | 3          | 2                   | 1              | 2                      | 6                                                    | 19                             |
| 1:00 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 1          | 2                   | 1              | 0                      | 4                                                    | 5                              |
| 1:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 2                   | 1              | 0                      | 3                                                    | 4                              |
| 1:30 PM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                                    | 0                           | 0          | 4                   | 0              | 0                      | 4                                                    | 0                           | 2          | 0                   | 0              | 0                      | 2                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 9                              |
| 1:45 PM                 | 0                           | 1          | 0                   | 1              | 0                      | 2                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 2          | 0                   | 0              | 0                      | 2                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 4                              |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 2                   | 1              | 0                      | 4                                                    | 0                           | 0          | 5                   | 0              | 0                      | 5                                                    | 0                           | 5          | 0                   | 0              | 0                      | 5                                                    | 0                           | 1          | 5                   | 2              | 0                      | 8                                                    | 22                             |
| 2:00 PM                 | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 1                   | 4              | 2                      | 5                                                    | 6                              |
| 2:15 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 2                              |
| 2:30 PM                 | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 1                      | 0                                                    | 0                           | 0          | 1                   | 1              | 0                      | 2                                                    | 3                              |
| 2:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 5          | 0                   | 0              | 0                      | 5                                                    | 0                           | 0          | 1                   | 2              | 0                      | 3                                                    | 8                              |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 1                   | 2              | 0                      | 3                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 5          | 0                   | 0              | 1                      | 5                                                    | 0                           | 0          | 3                   | 8              | 2                      | 11                                                   | 19                             |
| 3:00 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                              |
| 3:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 2          | 0                   | 1              | 0                      | 3                                                    | 1                           | 0          | 2                   | 1              | 0                      | 4                                                    | 7                              |
| 3:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 2          | 0                   | 0              | 0                      | 2                                                    | 0                           | 0          | 0                   | 2              | 0                      | 2                                                    | 4                              |
| 3:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 0                           | 1          | 0                   | 0              | 0                      | 1                                                    | 0                           | 0          | 1                   | 0              | 0                      | 1                                                    | 3                              |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                                    | 0                           | 0          | 0                   | 1              | 0                      | 1                                                    | 0                           | 5          | 0                   | 1              | 0                      | 6                                                    | 1                           | 0          | 3                   | 3              | 0                      | 7                                                    | 14                             |

TMC 2577 - CSAH 116 @ CSAH 52  
Ham Lake MN  
Tuesday, August 19, 2025

|                         | Southbound Heavy<br>CSAH 52 |            |                     |                |                        |                                            | Westbound Heavy<br>CSAH 116 |            |                     |                |                        |                                            | Northbound Heavy<br>CSAH 52 |            |                     |                |                        |                                            | Eastbound Heavy<br>CSAH 116 |            |                     |                |                        |                                            | 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          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 1                              |   |
| 4:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 0                           | 1          | 0                   | 2              | 0                      | 3                                          | 5                              |   |
| 4:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 1                              |   |
| 4:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                           | 0          | 1                   | 0              | 0                      | 0                                          | 1                           | 0          | 0                   | 0              | 0                      | 0                                          | 3                              |   |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 4                   | 1              | 0                      | 5                                          | 0                           | 0          | 1                   | 1              | 0                      | 2                                          | 0                           | 1          | 0                   | 2              | 0                      | 3                                          | 10                             |   |
| 5:00 PM                 | 1                           | 0          | 0                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 1                              |   |
| 5:15 PM                 | 0                           | 0          | 1                   | 2              | 0                      | 3                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 0                                          | 3                              |   |
| 5:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 1                              |   |
| 5:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 1                              |   |
| Hourly 'Heavy Vehicles' | 1                           | 0          | 1                   | 2              | 0                      | 4                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 0                   | 2              | 1                      | 2                                          | 6                              |   |
| 6:00 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                              |   |
| 6:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 2                              |   |
| 6:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 2                              |   |
| 6:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 1                              |   |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                           | 2          | 1                   | 0              | 1                      | 3                                          | 0                           | 0          | 0                   | 1              | 1                      | 1                                          | 5                              |   |
| 7:00 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 1                              |   |
| 7:15 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                              |   |
| 7:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 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                              |   |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 2 |
| 8:00 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                              |   |
| 8:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 2                              |   |
| 8:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 2                              |   |
| 8:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 1                              |   |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 1          | 2                   | 0              | 0                      | 3                                          | 0                           | 2          | 0                   | 0              | 0                      | 2                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 5                              |   |
| 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                              |   |
| 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                              |   |
| 9:30 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                              |   |
| 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                              |   |
| Hourly 'Heavy Vehicles' | 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                              |   |
| 10:00 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                              |   |
| 10:15 PM                | 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                              |   |
| 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                              |   |
| 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                              |   |
| Hourly 'Heavy Vehicles' | 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                              |   |
| 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                              |   |
| 11:15 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                              |   |
| 11:30 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                              |   |
| 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                              |   |
| Hourly 'Heavy Vehicles' | 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                              |   |
| DAILY 'Heavy Vehicles'  | 1                           | 5          | 18                  | 11             | 2                      | 35                                         | 0                           | 3          | 40                  | 5              | 0                      | 48                                         | 0                           | 37         | 10                  | 4              | 5                      | 51                                         | 1                           | 8          | 34                  | 34             | 6                      | 77                                         | 211                            |   |

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2577

Study Date : 09/02/2025

## Signal Warrants - Summary

### Major Street Approaches

Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 3,190

Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 2,908

### Minor Street Approaches

Eastbound: CSAH 116

Number of Lanes :2+

Total Approach Volume: 2,774

Westbound: CSAH 116

Number of Lanes :2+

Total Approach Volume: 2,329

### Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 5 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 1 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 9 hours, 8 are needed

Required 1B volumes reached for 3 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Not Satisfied

Number of hours (3) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Satisfied

Number of one hour periods (13) volumes exceed minimum >= required (1). 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 2577

Study Date : 09/02/2025

## 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

Only 5 one hour periods meet minimums.  
Warrant is NOT 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 = **420**  
  
Veh/Hr Minor = **140**

| Major Road    |          |   |          |   |       | Minor Road |          |      |
|---------------|----------|---|----------|---|-------|------------|----------|------|
| CSAH 52       |          |   |          |   |       | CSAH 116   |          |      |
| Time          | Major NB | + | Major SB | = | Total | Minor EB   | Minor WB | Met? |
| 16:15 - 17:15 | 414      | + | 221      | = | 635   | 292        | 207      | Yes  |
| 15:15 - 16:15 | 369      | + | 169      | = | 538   | 287        | 191      | Yes  |
| 17:15 - 18:15 | 364      | + | 170      | = | 534   | 240        | 177      | Yes  |
| 14:15 - 15:15 | 288      | + | 153      | = | 441   | 197        | 158      | Yes  |
| 07:00 - 08:00 | 110      | + | 325      | = | 435   | 128        | 198      | Yes  |
| 14:00 - 15:00 | 265      | + | 152      | = | 417   | 198        | 149      | No   |
| 06:45 - 07:45 | 94       | + | 323      | = | 417   | 115        | 182      | No   |
| 13:45 - 14:45 | 252      | + | 158      | = | 410   | 179        | 131      | No   |
| 13:30 - 14:30 | 226      | + | 161      | = | 387   | 170        | 131      | No   |
| 08:00 - 09:00 | 112      | + | 251      | = | 363   | 114        | 162      | No   |
| 13:15 - 14:15 | 201      | + | 155      | = | 356   | 179        | 124      | No   |
| 06:30 - 07:30 | 77       | + | 277      | = | 354   | 103        | 161      | No   |
| 11:30 - 12:30 | 174      | + | 177      | = | 351   | 157        | 139      | No   |
| 11:15 - 12:15 | 177      | + | 166      | = | 343   | 166        | 147      | No   |
| 13:00 - 14:00 | 197      | + | 145      | = | 342   | 159        | 123      | No   |
| 10:45 - 11:45 | 163      | + | 176      | = | 339   | 164        | 137      | No   |
| 18:15 - 19:15 | 199      | + | 131      | = | 330   | 189        | 112      | No   |
| 11:00 - 12:00 | 165      | + | 165      | = | 330   | 165        | 140      | No   |
| 06:15 - 07:15 | 62       | + | 268      | = | 330   | 64         | 147      | No   |
| 11:45 - 12:45 | 170      | + | 156      | = | 326   | 152        | 140      | No   |
| 18:30 - 19:30 | 194      | + | 130      | = | 324   | 174        | 109      | No   |
| 10:30 - 11:30 | 147      | + | 176      | = | 323   | 150        | 138      | No   |
| 08:15 - 09:15 | 116      | + | 207      | = | 323   | 111        | 159      | No   |
| 08:45 - 09:45 | 109      | + | 211      | = | 320   | 130        | 150      | No   |
| 12:45 - 13:45 | 181      |   | 137      |   | 318   | 158        | 113      | No   |

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2577

Study Date : 09/02/2025

## 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

Only 1 one hour periods meet minimums.  
Warrant is NOT 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 = **630**  
  
Veh/Hr Minor = **70**

| Major Road    |          |   |          |   |       | Minor Road |          |      |
|---------------|----------|---|----------|---|-------|------------|----------|------|
| CSAH 52       |          |   |          |   |       | CSAH 116   |          |      |
| Time          | Major NB | + | Major SB | = | Total | Minor EB   | Minor WB | Met? |
| 16:15 - 17:15 | 414      | + | 221      | = | 635   | 292        | 207      | Yes  |
| 16:00 - 17:00 | 409      | + | 191      | = | 600   | 268        | 200      | No   |
| 15:45 - 16:45 | 390      | + | 188      | = | 578   | 280        | 208      | No   |
| 15:30 - 16:30 | 390      | + | 179      | = | 569   | 278        | 199      | No   |
| 15:15 - 16:15 | 369      | + | 169      | = | 538   | 287        | 191      | No   |
| 17:15 - 18:15 | 364      | + | 170      | = | 534   | 240        | 177      | No   |
| 15:00 - 16:00 | 347      | + | 162      | = | 509   | 278        | 179      | No   |
| 14:45 - 15:45 | 326      | + | 164      | = | 490   | 251        | 172      | No   |
| 14:30 - 15:30 | 304      | + | 158      | = | 462   | 230        | 172      | No   |
| 17:30 - 18:30 | 309      | + | 149      | = | 458   | 211        | 161      | No   |
| 07:15 - 08:15 | 115      | + | 337      | = | 452   | 152        | 181      | No   |
| 07:30 - 08:30 | 128      | + | 322      | = | 450   | 127        | 178      | No   |
| 14:15 - 15:15 | 288      | + | 153      | = | 441   | 197        | 158      | No   |
| 07:00 - 08:00 | 110      | + | 325      | = | 435   | 128        | 198      | No   |
| 14:00 - 15:00 | 265      | + | 152      | = | 417   | 198        | 149      | No   |
| 06:45 - 07:45 | 94       | + | 323      | = | 417   | 115        | 182      | No   |
| 13:45 - 14:45 | 252      | + | 158      | = | 410   | 179        | 131      | No   |
| 17:45 - 18:45 | 255      | + | 141      | = | 396   | 201        | 149      | No   |
| 07:45 - 08:45 | 123      | + | 271      | = | 394   | 115        | 169      | No   |
| 13:30 - 14:30 | 226      | + | 161      | = | 387   | 170        | 131      | No   |
| 18:00 - 19:00 | 233      | + | 148      | = | 381   | 207        | 130      | No   |
| 08:00 - 09:00 | 112      | + | 251      | = | 363   | 114        | 162      | No   |
| 13:15 - 14:15 | 201      | + | 155      | = | 356   | 179        | 124      | No   |
| 06:30 - 07:30 | 77       | + | 277      | = | 354   | 103        | 161      | No   |
| 11:30 - 12:30 | 174      |   | 177      |   | 351   | 157        | 139      | No   |

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2577

Study Date : 09/02/2025

## 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

9 hours meet 1A minimums.  
Only 3 hours meet 1B minimums.  
Warrant is NOT 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 = **336 504**  
  
Veh/Hr Minor = **112 56**

| Major Road    |          |   |          |   |       | Minor Road |          |        |  |  |
|---------------|----------|---|----------|---|-------|------------|----------|--------|--|--|
| CSAH 52       |          |   |          |   |       | CSAH 116   |          |        |  |  |
| Time          | Major NB | + | Major SB | = | Total | Minor EB   | Minor WB | Met1A? |  |  |
| 16:00 - 17:00 | 409      | + | 191      | = | 600   | 268        | 200      | Yes    |  |  |
| 17:00 - 18:00 | 386      | + | 205      | = | 591   | 269        | 196      | Yes    |  |  |
| 15:00 - 16:00 | 347      | + | 162      | = | 509   | 278        | 179      | Yes    |  |  |
| 07:30 - 08:30 | 128      | + | 322      | = | 450   | 127        | 178      | Yes    |  |  |
| 14:00 - 15:00 | 265      | + | 152      | = | 417   | 198        | 149      | Yes    |  |  |
| 18:00 - 19:00 | 233      | + | 148      | = | 381   | 207        | 130      | Yes    |  |  |
| 06:30 - 07:30 | 77       | + | 277      | = | 354   | 103        | 161      | Yes    |  |  |
| 13:00 - 14:00 | 197      | + | 145      | = | 342   | 159        | 123      | Yes    |  |  |
| 10:45 - 11:45 | 163      | + | 176      | = | 339   | 164        | 137      | Yes    |  |  |
| 06:15 - 07:15 | 62       | + | 268      | = | 330   | 64         | 147      | No     |  |  |
| 11:45 - 12:45 | 170      | + | 156      | = | 326   | 152        | 140      | No     |  |  |
| 10:30 - 11:30 | 147      |   | 176      |   | 323   | 150        | 138      | No     |  |  |

| Time          | Major NB | + | Major SB | = | Total | Minor EB | Minor WB | Met1B? |  |
|---------------|----------|---|----------|---|-------|----------|----------|--------|--|
| 16:00 - 17:00 | 409      | + | 191      | = | 600   | 268      | 200      | Yes    |  |
| 17:00 - 18:00 | 386      | + | 205      | = | 591   | 269      | 196      | Yes    |  |
| 15:00 - 16:00 | 347      | + | 162      | = | 509   | 278      | 179      | Yes    |  |
| 14:45 - 15:45 | 326      | + | 164      | = | 490   | 251      | 172      | No     |  |
| 14:30 - 15:30 | 304      | + | 158      | = | 462   | 230      | 172      | No     |  |
| 07:15 - 08:15 | 115      | + | 337      | = | 452   | 152      | 181      | No     |  |
| 07:30 - 08:30 | 128      | + | 322      | = | 450   | 127      | 178      | No     |  |
| 14:15 - 15:15 | 288      | + | 153      | = | 441   | 197      | 158      | No     |  |
| 07:00 - 08:00 | 110      | + | 325      | = | 435   | 128      | 198      | No     |  |
| 14:00 - 15:00 | 265      | + | 152      | = | 417   | 198      | 149      | No     |  |
| 06:45 - 07:45 | 94       | + | 323      | = | 417   | 115      | 182      | No     |  |
| 13:45 - 14:45 | 252      |   | 158      |   | 410   | 179      | 131      | No     |  |

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2577

Study Date : 09/02/2025

## 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.

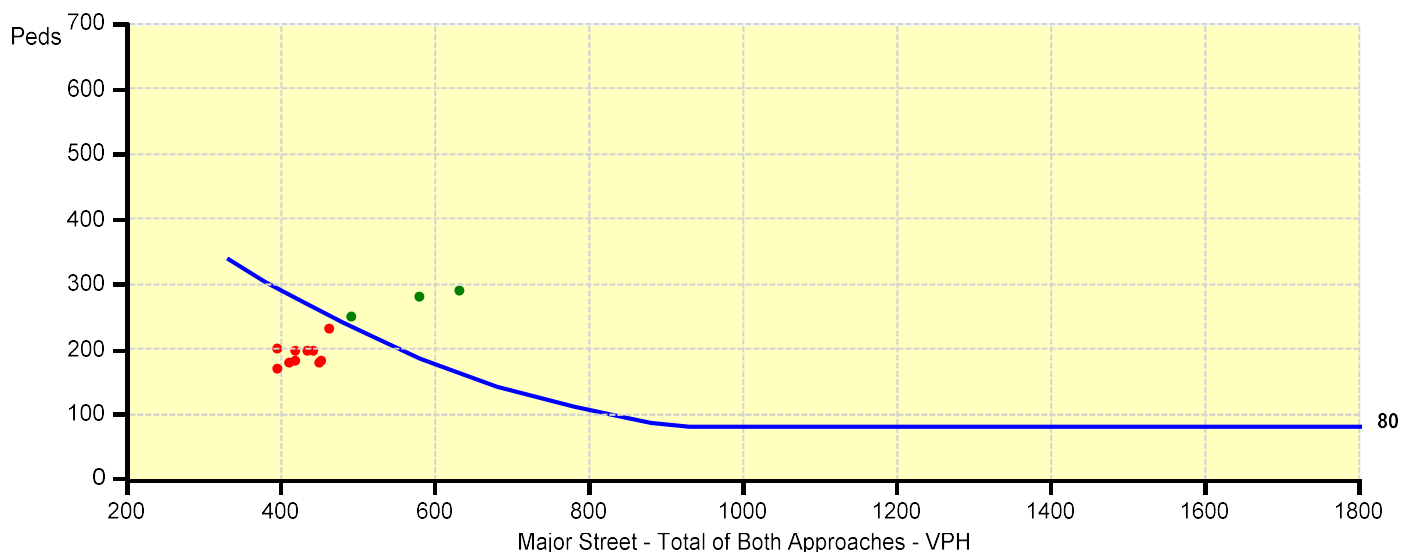
### Summary

Only 3 one hour periods meet minimums.  
Warrant is NOT 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 52 |          |   |          |   |       | Minor Road<br>CSAH 116 |          |      |
|-----------------------|----------|---|----------|---|-------|------------------------|----------|------|
| Time                  | Major NB | + | Major SB | = | Total | Minor EB               | Minor WB | Met? |
| 16:45 - 17:45         | 415      | + | 217      | = | 632   | 291                    | 194      | Yes  |
| 15:45 - 16:45         | 390      | + | 188      | = | 578   | 280                    | 208      | Yes  |
| 14:45 - 15:45         | 326      | + | 164      | = | 490   | 251                    | 172      | Yes  |
| 14:30 - 15:30         | 304      | + | 158      | = | 462   | 230                    | 172      | No   |
| 07:15 - 08:15         | 115      | + | 337      | = | 452   | 152                    | 181      | No   |
| 07:30 - 08:30         | 128      | + | 322      | = | 450   | 127                    | 178      | No   |
| 14:15 - 15:15         | 288      | + | 153      | = | 441   | 197                    | 158      | No   |
| 07:00 - 08:00         | 110      | + | 325      | = | 435   | 128                    | 198      | No   |
| 14:00 - 15:00         | 265      | + | 152      | = | 417   | 198                    | 149      | No   |
| 06:45 - 07:45         | 94       | + | 323      | = | 417   | 115                    | 182      | No   |
| 13:45 - 14:45         | 252      | + | 158      | = | 410   | 179                    | 131      | No   |
| 17:45 - 18:45         | 255      | + | 141      | = | 396   | 201                    | 149      | No   |





# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2577

Study Date : 09/02/2025

## 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.

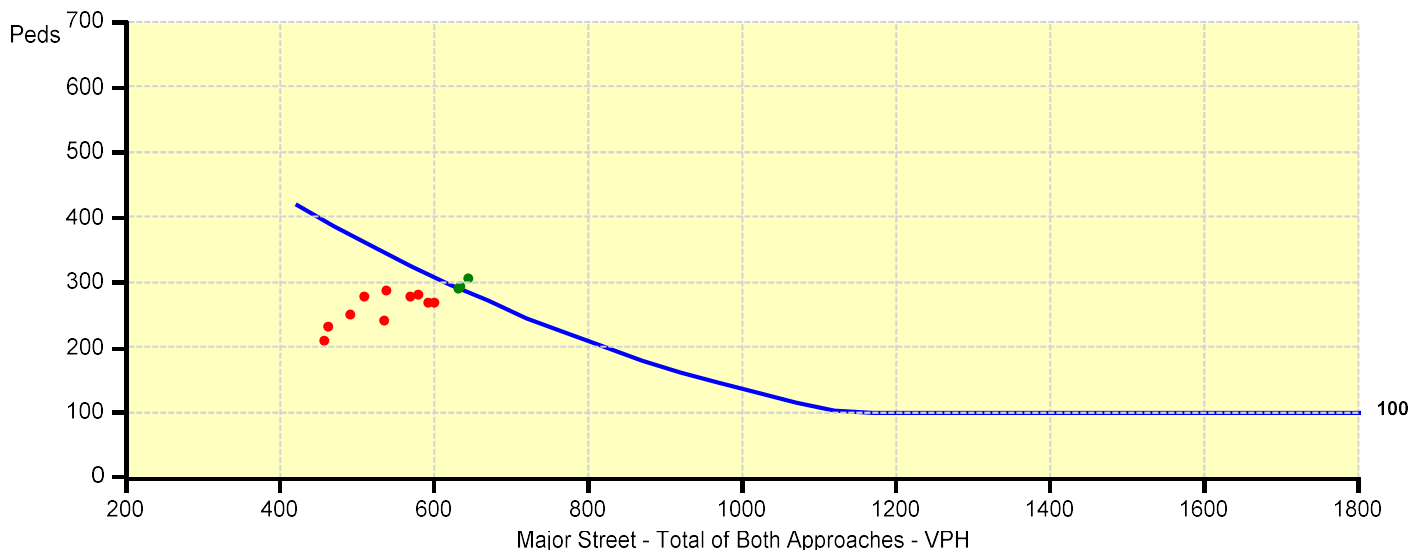
### Summary

3 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 52 |          |   |          |   |       | Minor Road<br>CSAH 116 |          |      |
|-----------------------|----------|---|----------|---|-------|------------------------|----------|------|
| Time                  | Major NB | + | Major SB | = | Total | Minor EB               | Minor WB | Met? |
| 16:30 - 17:30         | 418      | + | 227      | = | 645   | 304                    | 202      | Yes  |
| 16:15 - 17:15         | 414      | + | 221      | = | 635   | 292                    | 207      | Yes  |
| 16:45 - 17:45         | 415      | + | 217      | = | 632   | 291                    | 194      | Yes  |
| 16:00 - 17:00         | 409      | + | 191      | = | 600   | 268                    | 200      | No   |
| 17:00 - 18:00         | 386      | + | 205      | = | 591   | 269                    | 196      | No   |
| 15:45 - 16:45         | 390      | + | 188      | = | 578   | 280                    | 208      | No   |
| 15:30 - 16:30         | 390      | + | 179      | = | 569   | 278                    | 199      | No   |
| 15:15 - 16:15         | 369      | + | 169      | = | 538   | 287                    | 191      | No   |
| 17:15 - 18:15         | 364      | + | 170      | = | 534   | 240                    | 177      | No   |
| 15:00 - 16:00         | 347      | + | 162      | = | 509   | 278                    | 179      | No   |
| 14:45 - 15:45         | 326      | + | 164      | = | 490   | 251                    | 172      | No   |
| 14:30 - 15:30         | 304      | + | 158      | = | 462   | 230                    | 172      | No   |



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2577

Study Date : 09/02/2025

## Multiway Stop Warrants - Summary

### Major Street Approaches

#### Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 3,190

#### Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 2,908

### Minor Street Approaches

#### Eastbound: CSAH 116

Number of Lanes :2+

Total Approach Volume: 2,774

#### Westbound: CSAH 116

Number of Lanes :2+

Total Approach Volume: 2,329

### Warrant Summary (Rural Values Apply)

**Criteria A - Interim Measure**..... **Not Evaluated**  
If traffic signals are justified, stop signs can be installed as an interim measure.

**Criteria B - Crash Experience**..... **Not Satisfied**  
Number of crashes (-1) is less than minimum required (5).

**Criteria C - Minimum Volumes and Delays**..... **Satisfied**  
Average of 8 highest hours meets or exceeds volume criteria.

**Criteria D - 80% of Volumes, Delays, and Crashes**..... **Not Satisfied**  
Number of crashes (-1) is less than minimum required (4).  
Average of 8 highest hours meets or exceeds volume criteria.

### Criteria C Volume Summary

| Time          | Major Total | Major Avg | Minor Total | Minor Avg | Major Crit | Minor Crit | Meets? |
|---------------|-------------|-----------|-------------|-----------|------------|------------|--------|
| 16:30 - 17:30 | 645         | 455.0     | 506         | 373.4     | 210        | 140        | Yes    |
| 15:30 - 16:30 | 569         |           | 477         |           |            |            |        |
| 14:30 - 15:30 | 462         |           | 402         |           |            |            |        |
| 17:30 - 18:30 | 458         |           | 372         |           |            |            |        |
| 07:15 - 08:15 | 452         |           | 333         |           |            |            |        |
| 13:30 - 14:30 | 387         |           | 301         |           |            |            |        |
| 11:15 - 12:15 | 343         |           | 313         |           |            |            |        |
| 18:30 - 19:30 | 324         |           | 283         |           |            |            |        |
| 08:45 - 09:45 | 320         |           | 280         |           |            |            |        |
| 10:00 - 11:00 | 305         |           | 274         |           |            |            |        |
| 12:15 - 13:15 | 299         |           | 264         |           |            |            |        |
| 06:15 - 07:15 | 330         |           | 211         |           |            |            |        |

### Criteria D Volume Summary

| Time          | Major Total | Major Avg | Minor Total | Minor Avg | Major Crit | Minor Crit | Meets? |
|---------------|-------------|-----------|-------------|-----------|------------|------------|--------|
| 16:30 - 17:30 | 645         | 455.0     | 506         | 373.4     | 240        | 160        | Yes    |
| 15:30 - 16:30 | 569         |           | 477         |           |            |            |        |
| 14:30 - 15:30 | 462         |           | 402         |           |            |            |        |
| 17:30 - 18:30 | 458         |           | 372         |           |            |            |        |
| 07:15 - 08:15 | 452         |           | 333         |           |            |            |        |
| 13:30 - 14:30 | 387         |           | 301         |           |            |            |        |
| 11:15 - 12:15 | 343         |           | 313         |           |            |            |        |
| 18:30 - 19:30 | 324         |           | 283         |           |            |            |        |
| 08:45 - 09:45 | 320         |           | 280         |           |            |            |        |
| 10:00 - 11:00 | 305         |           | 274         |           |            |            |        |
| 12:15 - 13:15 | 299         |           | 264         |           |            |            |        |
| 06:15 - 07:15 | 330         |           | 211         |           |            |            |        |