

DATE, TIME, LIGHT, WEATHER

- OVERTURN
- FIRE OR EXPLOSION
- MOVING VEHICLE
- REAR END
- BACKING VEHICLE
- COLLISION WITH FIXED OBJECT
- SIDE SWIPE SAME DIRECTION
- SIDE SWIPE OPPOSITE DIRECTION
- PARKED VEHICLE
- MOTORCYCLE
- DEER
- PEDESTRIAN
- BICYCLE
- FIXED OBJECT
- RIGHT ANGLE
- VEHICLE OUT OF CONTROL
- LEFT TURN INTO ONCOMING TRAFFIC

ADT: 24610  
 ACCIDENT RATE: 0.28 CR INDEX: 0.37  
 SEVERITY RATE: 0.36 FAR INDEX: 0.00

LIGHT	WEATHER	SEVERITY CODE
L = LIGHT DN = DAWN DU = DUSK D = DARK X = UNKNOWN	C = CLEAR CL = CLOUDY R = RAIN S = SNOW/SLEET X = OTHER/UNKNOWN	(N) PROPERTY DAMAGE (C) POSSIBLE INJURY (B) MINOR INJURY (A) SERIOUS INJURY (K) FATALITY



**ANOKA COUNTY  
HIGHWAY DEPT.**

**COLLISION  
DIAGRAM**

CSAH 1 @ CSAH 18  
 JANUARY 2018 TO MARCH  
 2023

## ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 1 @ CSAH 18	
Study Start Date:	01/01/2018	
Study End Date:	03/31/2023	
Length of study in years:	5.25	Days = 1916.25      Weighted
Intersection ADT:	24610	Total Accidents = 13
Number of Fatal Accidents:	0	Total Fatal Accidents = 0      0
Number of "A" P.I. Accidents:	0	Total "A" Injury Accidents = 0      0
Number of "B" P.I. Accidents:	2	Total "B" Injury Accidents = 2      6
Number of "C" P.I. Accidents:	0	Total "C" Injury Accidents = 0      0
Number of Property Damage Accidents:	11	Total Property Damage Accidents = 11      11
		Sum of weighted accidents = 17
Accident Rate (AR) =	0.28	
Severity Rate (SR) =	0.36	

# Intersection Safety Screening

Intersection: CSAH 1 @ CSAH 18

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*Statewide Averages based on 2016-2020 crashes*

Crashes by Crash Severity	
Fatal (K)	0
Serious Injury (A)	0
Minor Injury (B)	2
Possible Injury (C)	0
Property Damage (PDO)	11
<b>Total Crashes</b>	<b>13</b>

Intersection Characteristics	
Entering Volume	24,610
Environment	Urban
Lighting	Lit
Traffic Control	Signal

*Annual crash cost* = \$120,600

*Statewide comparison* = Signal, Low Volume (<=20K)

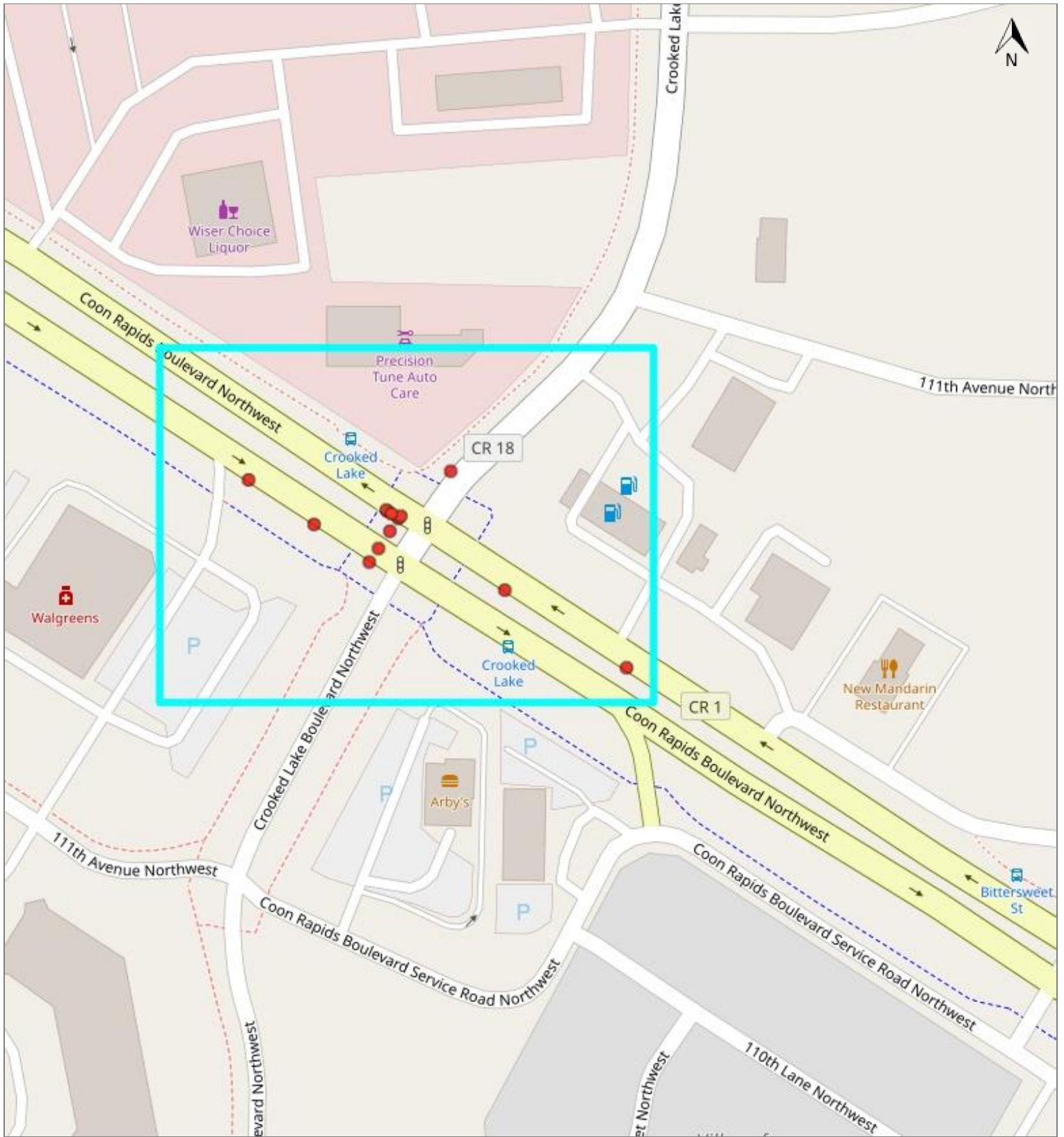
Total Crash Rate	
Observed	0.289
Statewide Average	0.508
Critical Rate	0.790
<b>Critical Index</b>	<b>0.37</b>

Fatal & Serious Injury Crash Rate	
Observed	0.000
Statewide Average	0.690
Critical Rate	3.390
<b>Critical Index</b>	<b>0.00</b>

*The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).*

*The observed total crash rate for this period is 0.29 per MEV; this is 63% below the critical rate. Based on similar statewide intersections, an additional 23 crashes over the five years would indicate this intersection operates outside the normal range.*

*The observed fatal and serious injury crash rate for this period is 0.00 per 100 MEV; this is 100% below the critical rate. The intersection operates within the normal range.*



Notes: 2018 through March 2023

06/07/2023MnCMAT 2.0.0