



DRAWING NOT TO SCALE

CSAH 12 (NORTHDALE BLVD)

CSAH 51 (UNIVERSITY AVE)

CSAH 12 (109TH AVE)

06/23/24 (5-6 PM) L, C

05/24/23 (3-4 PM) L, C  
 05/18/23 (5-6 PM) L, C  
 11/13/22 (11-12 PM) L, CL  
 04/01/23 (11-12 PM) L, C  
 01/07/22 (6-7 AM) D, C

11/10/22 (3-4 PM) L, CL  
 04/22/23 (1-2 PM) L, CL  
 03/01/23 (1-2 PM) L, CL  
 06/07/22 (6-7 PM) L, C  
 12/17/21 (3-4 PM) L, C

08/24/21 (3-4 PM) L, C  
 07/12/21 (5-6 AM) DN, C  
 09/23/21 (12-1 PM) L, C  
 09/02/22 (12-1 PM) L, C  
 06/09/24 (7-8 AM) L, C

02/23/23 (11-12 PM) L, S  
 03/11/21 (4-5 PM) L, C  
 04/26/23 (9-10 AM) L, C  
 08/25/23 (4-5 PM) L, C  
 09/03/21 (3-4 PM) L, CL  
 02/16/22 (1-2 PM) L, C  
 01/04/23 (9-10 AM) L, S  
 12/19/22 (11-12 PM) L, S  
 02/01/23 (3-4 PM) L, C  
 05/18/23 (2-3 PM) L, CL  
 02/13/23 (2-3 PM) L, C  
 01/16/22 (4-5 PM) L, C

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: 31245  
 ACCIDENT RATE: 0.73 CR INDEX: 0.63  
 SEVERITY RATE: 0.95 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 12 (109TH AVE) @  
 CSAH 51 (UNIVERSITY AVE)  
 JAN 2021 TO JUNE 2024

Sheet   1   of   1   Sheets

## ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 12 @ CSAH 51	
Study Start Date:	01/01/2021	
Study End Date:	06/30/2024	
Length of study in years:	3.50	Days = 1276.486      Weighted
Intersection ADT:	31245	Total Accidents = 29
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:	3	Total "B" Injury Accidents = 3      9
Number of "C" P.I. Accidents:	3	Total "C" Injury Accidents = 3      6
Number of Property Damage Accidents:	23	Total Property Damage Accidents = 23      23
		Sum of weighted accidents = 38
Accident Rate (AR) =	0.73	
Severity Rate (SR) =	0.95	

# Intersection Safety Screening

Intersection: CSAH 12 @ CSAH 51

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*Statewide Averages based on 2018-2022 crashes*

Crashes by Crash Severity	
Fatal (K)	0
Serious Injury (A)	0
Minor Injury (B)	3
Possible Injury (C)	3
Property Damage (PDO)	23
<b>Total Crashes</b>	<b>29</b>

Intersection Characteristics	
Entering Volume	31,245
Environment	Urban
Lighting	Lit
Traffic Control	Signal

*Annual crash cost* = \$297,000

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

Total Crash Rate	
Observed	0.508
Statewide Average	0.548
Critical Rate	0.810
<b>Critical Index</b>	<b>0.63</b>

Fatal & Serious Injury Crash Rate	
Observed	0.000
Statewide Average	1.024
Critical Rate	3.620
<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 0.51 per MEV; this is 37% below the critical rate. Based on similar statewide intersections, an additional 18 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.*