

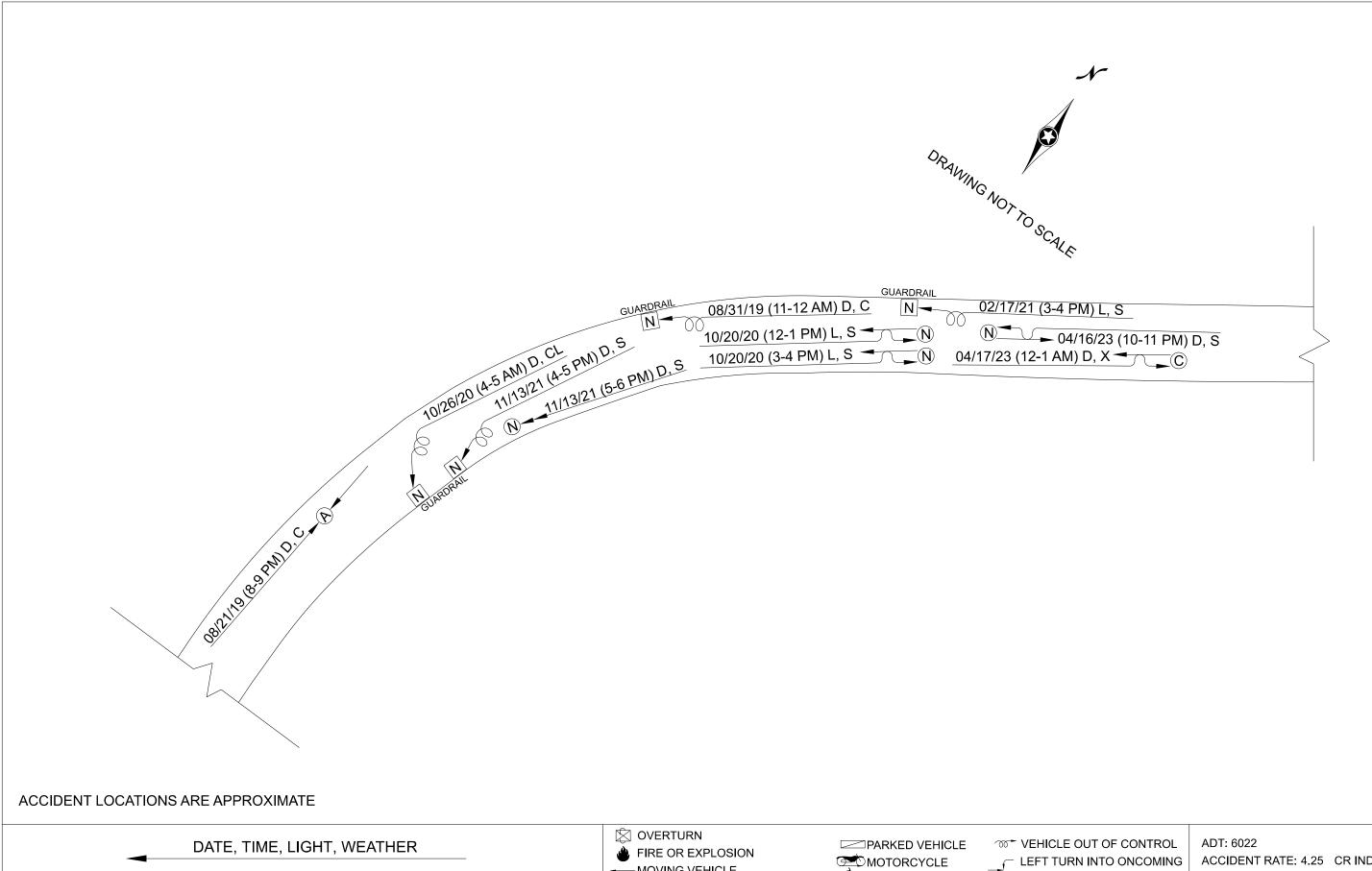
SIDE SWIPE OPPOSITE DIRECTION

K FATALITY

X = OTHER/UNKNOWN

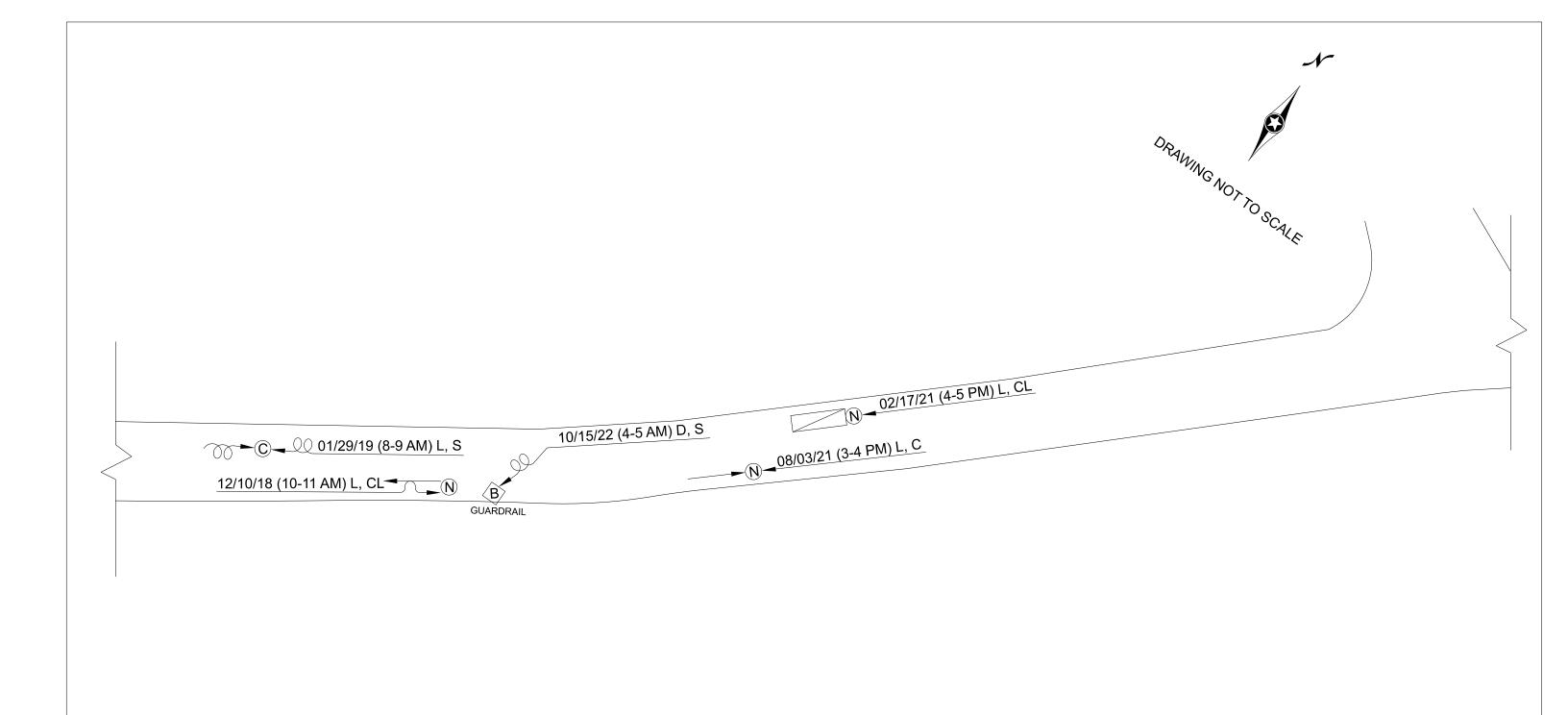
X = UNKNOWN

Sheet 2 of 5 Sheets



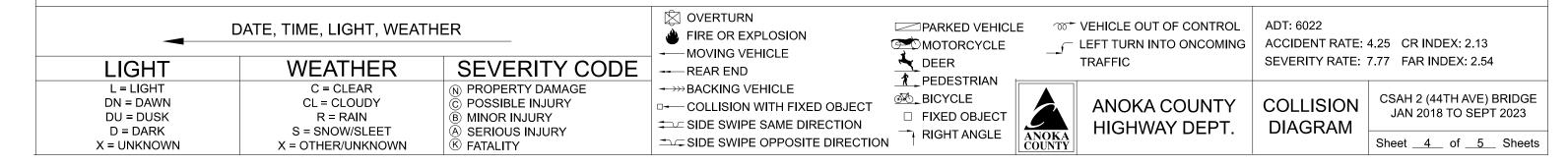
LEFT TURN INTO ONCOMING ACCIDENT RATE: 4.25 CR INDEX: 2.13 → MOVING VEHICLE DEER TRAFFIC SEVERITY RATE: 7.77 FAR INDEX: 2.54 SEVERITY CODE LIGHT **WEATHER** --- REAR END ↑ PEDESTRIAN C = CLEAR N PROPERTY DAMAGE L = LIGHT →→→→ BACKING VEHICLE CSAH 2 (44TH AVE) BRIDGE DN = DAWN CL = CLOUDY © POSSIBLE INJURY **ANOKA COUNTY COLLISION** □ COLLISION WITH FIXED OBJECT JAN 2018 TO SEPT 2023 DU = DUSK ☐ FIXED OBJECT R = RAIN **B** MINOR INJURY HIGHWAY DEPT. DIAGRAM D = DARK S = SNOW/SLEET RIGHT ANGLE ANOKA COUNTY SIDE SWIPE OPPOSITE DIRECTION Sheet 3 of 5 Sheets X = UNKNOWN **K** FATALITY X = OTHER/UNKNOWN

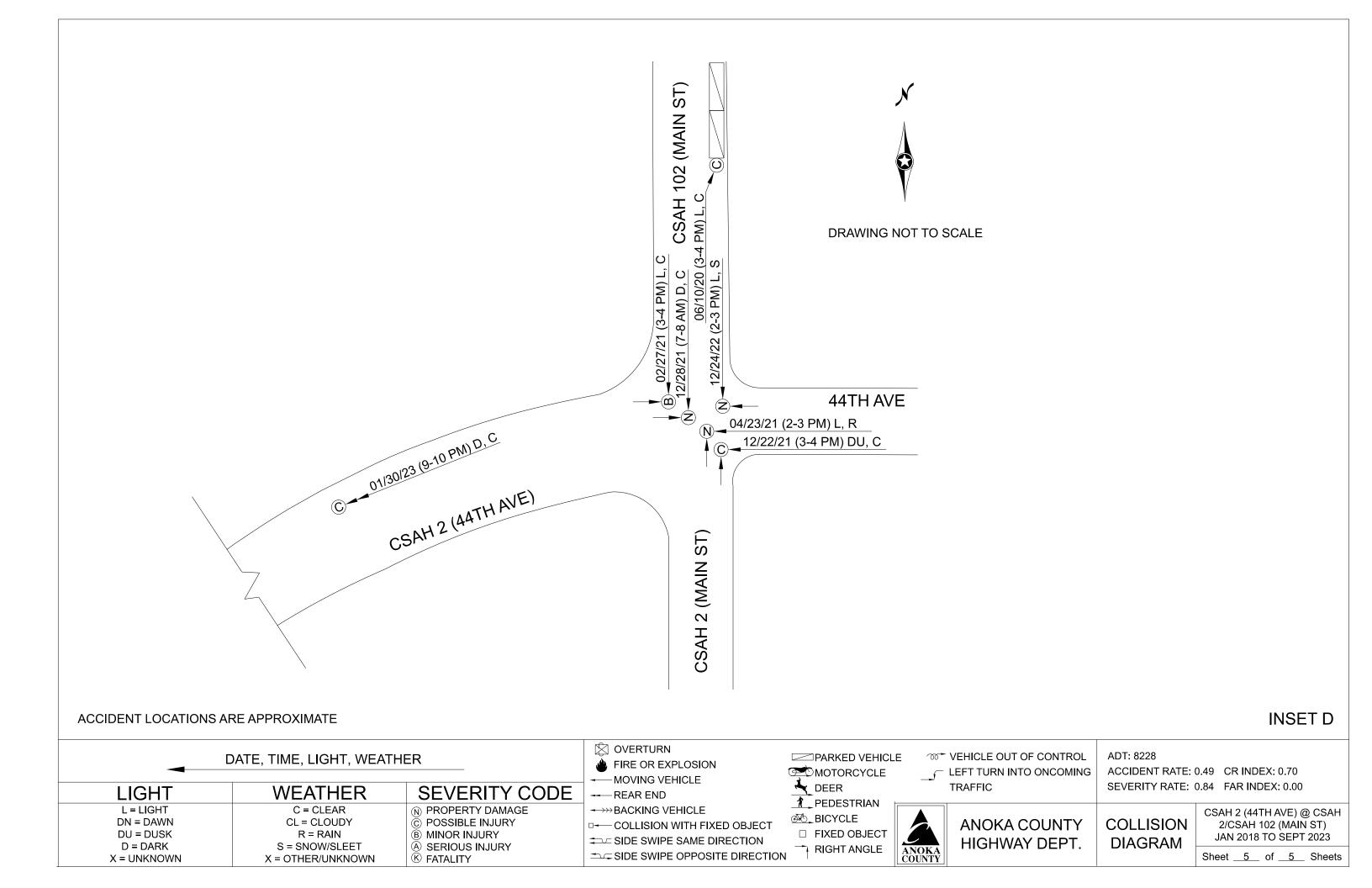
INSET B



ACCIDENT LOCATIONS ARE APPROXIMATE

INSET C





Segment: CSAH 2 from CSAH 1 to CSAH 2/CSAH 102			
Study Start Date:	01/01/2018	Miles = 0.540	
Study End Date	09/30/2023		
Length of study in years:	5.75	Days = 2097.736	Weighted
Average ADT for Corridor:	6022	Total Accidents = 29	
Number of Fatal Accidents:	0	Total Fatal Accidents = 0	0
Number of "A" P.I. Accidents:	3	Total "A" Injury Accidents = 3	12
Number of "B" P.I. Accidents:	4	Total "B" Injury Accidents = 4	12
Number of "C" P.I. Accidents:	7	Total "C" Injury Accidents = 7	14
Number of Property Damage Accidents:	15	Total Property Damage Accidents = 15	15
_		Sum of weighted accidents =	53
Accident Rate (AR) =	4.25		
Severity Rate (SR) =	7.77		

Segment Safety Screening

Segment: CSAH 2 from CSAH 1 to CSAH 2/CSAH 102

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity			
Fatal (K)	0		
Incapacitating Injury (A)	3		
Minor Injury (B)	4		
Possible Injury (C)	7		
Property Damage (PDO)	15		
Total Crashes	29		

Analysis Description			
Length	0.540 miles		
VMT	5,937,933		
Non-junction A	ND Junction Crashes		

Annual crash cost per mile = \$1,679,630

Statewide comparison = Urban 2-Lane AADT 5000-7999

Total Crash Rate (CR)			
Observed	4.884		
Statewide Average	1.101		
Critical Rate	2.290		
Critical Index	2.13		

Fatal & Serious Injury Crash Rate (FAR)		
Observed	50.523	
Statewide Average	2.737	
Critical Rate	19.860	
Critical Index	2.54	

The observed crash rate is the number of crashes per million vehicle miles traveled (MVMT). The critical rate is a statistical comparison based on similar trunk highways statewide. An observed crash rate greater than the critical rate indicates that the section 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 4.88 per MVMT; this is 2.1 times the critical rate. If crashes were reduced by 16 over five years (55%), the section would perform within normal range.

The observed fatal and serious injury crash rate for this period is 50.52 per 100 MVMT; this is 2.5 times the critical rate. This section may be a sustained severe crash location.

Intersection: CSAH 1 @ CSAH	12
Study Start Date: 01/01/201	<mark>8</mark>
Study End Date 09/30/202	<mark>2</mark>
Length of study in years: 4.7	Days = 1732.736 Weighted
Intersection ADT: 1465	Total Accidents = 7
Number of Fatal Accidents:	Total Fatal Accidents = 0 0
Number of "A" P.I. Accidents:	Total "A" Injury Accidents = 2 8
Number of "B" P.I. Accidents:	Total "B" Injury Accidents = 2
Number of "C" P.I. Accidents:	Total "C" Injury Accidents = 2 4
mber of Property Damage Accidents:	Total Property Damage Accidents = 1 1
	Sum of weighted accidents = 19
Accident Rate (AR) = 0.28	
Severity Rate (SR) = 0.75	

Intersection Safety Screening

Intersection: CSAH 1@CSAH 2

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity			
Fatal (K)	0		
Serious Injury (A)	2		
Minor Injury (B)	2		
Possible Injury (C)	2		
Property Damage (PDO)	1		
Total Crashes	7		

Intersection Characteristics			
Entering Volume	14,652		
Environment	Urban		
Lighting	Lit		
Traffic Control	Signal		

Annual crash cost = \$475,000

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

Total Crash Rate			
Observed	0.262		
Statewide Average	0.548		
Critical Rate	0.940		
Critical Index	0.28		

Fatal & Serious Injury Crash Rate			
Observed	7.475		
Statewide Average	1.024		
Critical Rate	5.400		
Critical Index	1.38		

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 0.26 per MEV; this is 72% below the critical rate. Based on similar statewide intersections, an additional 19 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 7.48 per 100 MEV; this is 1.4 times the critical rate. This site may be a sustained severe crash location.

ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION			
Intersection:	CSAH 2 @ CSAH 2	/CSAH 102	
Study Start Date:	01/01/2018		
Study End Date	09/30/2022		
Length of study in years:	4.75	Days = 1732.736	Weighted
Intersection ADT:	8228	Total Accidents = 7	
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:	1	Total "B" Injury Accidents = 1	3
Number of "C" P.I. Accidents:	3	Total "C" Injury Accidents = 3	6
Number of Property Damage Accidents:	3	Total Property Damage Accidents = 3	3
_		Sum of weighted accidents =	12
Accident Rate (AR) =	0.49		
Severity Rate (SR) =	0.84		

Intersection Safety Screening

Intersection: CSAH 2 @ CSAH 2/CSAH 102

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity			
Fatal (K)	0		
Serious Injury (A)	0		
Minor Injury (B)	1		
Possible Injury (C)	3		
Property Damage (PDO)	3		
Total Crashes	7		

Intersection Characteristics		
Entering Volume	8,228	
Environment	Urban	
Lighting	Lit	
Traffic Control	All-way Stop	

Annual crash cost = \$137,000

Statewide comparison = All-way STOP

Total Crash Rate		
Observed	0.466	
Statewide Average	0.281	
Critical Rate	0.670	
Critical Index	0.70	

Fatal & Serious Injury Crash Rate		
Observed	0.000	
Statewide Average	0.233	
Critical Rate	5.160	
Critical Index	0.00	

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 0.47 per MEV; this is 30% below the critical rate. Based on similar statewide intersections, an additional 4 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.