



**AUTOMATED
TRAFFIC
ENFORCEMENT
2022 ANNUAL
TRAFFIC REPORT**

**SPEED
PHOTO
ENFORCED**



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Introduction

The City of Red Deer (The City) has a population of approximately 107,000 and is policed by the Royal Canadian Mounted Police (RCMP). Law enforcement in The City is also complemented with eighteen Community Peace Officers (CPO's). The RCMP and the CPOs in collaboration with The City of Red Deer are committed to increasing the level of roadway user safety. The Automated Traffic Enforcement (ATE) program is one mechanism used to reach this goal by reducing speed and managing intersection traffic compliance, which has a direct impact on collisions within Red Deer. The ATE program is a balanced and transparent education and enforcement approach, when used in conjunction with conventional traffic enforcement, contributes to community safety.

The requirements in the new ATE Guideline came into effect upon signing of the Ministerial Order by the Minister of Justice and Solicitor General and these guidelines were implemented in December of 2021. The new ATE guideline December 2021 is on the City web site located at: <https://www.reddeer.ca/media/reddeerca/city-services/police-rcmp/trans-automated-traffic-enforcement-technology-guideline-2021-12.pdf>

The new ATE Guideline had a number of additions, deletions, and subsequently resulted in the removal of site selection criteria for “*areas where the public or community has expressed concerns related to speeding*” and “*areas or intersections where conventional enforcement is unsafe or ineffective*”. On June 1, 2022 this resulted in the removal of 66 photo laser enforcement traffic corridor sites. The approved sites can be viewed on the City of Red Deer web site at: <https://reddeer.ca/city-services/police-rcmp/traffic-safety-and-enforcement/automated-traffic-enforcement-faqs/>

Overview

The City of Red Deer's Automated Traffic Enforcement (ATE) Program includes photo laser, red light and intersection speed cameras.

The City of Red Deer (The City) operates three mobile trucks that are used at 191 mobile enforcement site locations (43 Traffic Corridors and 148 Playground/School zones) that have oversight and approval by the Red Deer Detachment of the Royal Canadian Mounted Police (RCMP).

Along with the mobile sites, The City has 10 permanently affixed Intersection Safety Device (ISD) cameras, with four of the ten ISDs activated on a rotational monthly basis. In November of 2022, The City activated all 10 of the ISD 24/7 from the rotating 4 per month.

Coordinated Traffic Safety

Traffic Safety and its initiatives and outcomes is a priority for the City of Red Deer and is achieved using the "Five E" philosophy of Education, Engineering, Enforcement, Engagement, and Evaluation. The long-term desired outcome is an improved transportation safety culture, where all citizens recognize and contribute positively to safer roadway use. The long-term vision is met through intermediate initiatives that address the reduction of speeding and reduced red light infractions, such as the ATE program.

The initiative includes the importance of ATE site selection, and if one or more prove to be ineffective, is removed from the eligible site list. This speaks to the importance of pivoting to ensure The City of Red Deer program retains its currency and impact. However, the Ministry of Public Safety and Emergency Services, in collaboration with the Minister of Transportation, in the Policy Direction for the 2021 Automated Traffic Enforcement Technology Guideline, have extended a "freeze" that was initially implemented on December 1, 2022 to December 1, 2023.



This change directs that there shall be no increase in amount of intersection safety devices and mobile units currently being used, or these devices cannot be moved to different locations.

Table 1 - ATE data from 2019-2022.

YEAR	PHOTO LASER	RED LIGHT CAMERA	SPEED THROUGH INTERSECTIONS	VIOLATION TOTALS
2019	10,444	322	14,876	25,642
*2020	6,951	288	9,246	16,485
2021	8,365	382	8,276	17,023
2022	7,365	636	7,429	15,430

COVID 19 Impact

Since March 2020, The City observed a significant reduction in traffic volume due to school closures, reduction in activities outside of the home, and an increase of work-from-home models. This traffic volume reduction is reflected in the decrease of infractions across the enforcement methods (as noted in Table 1). Additionally, ATE was temporarily reduced for approximately 30 days during the initial COVID wave in 2020.

In 2021 and 2022, The City experienced a reduction in traffic volume.

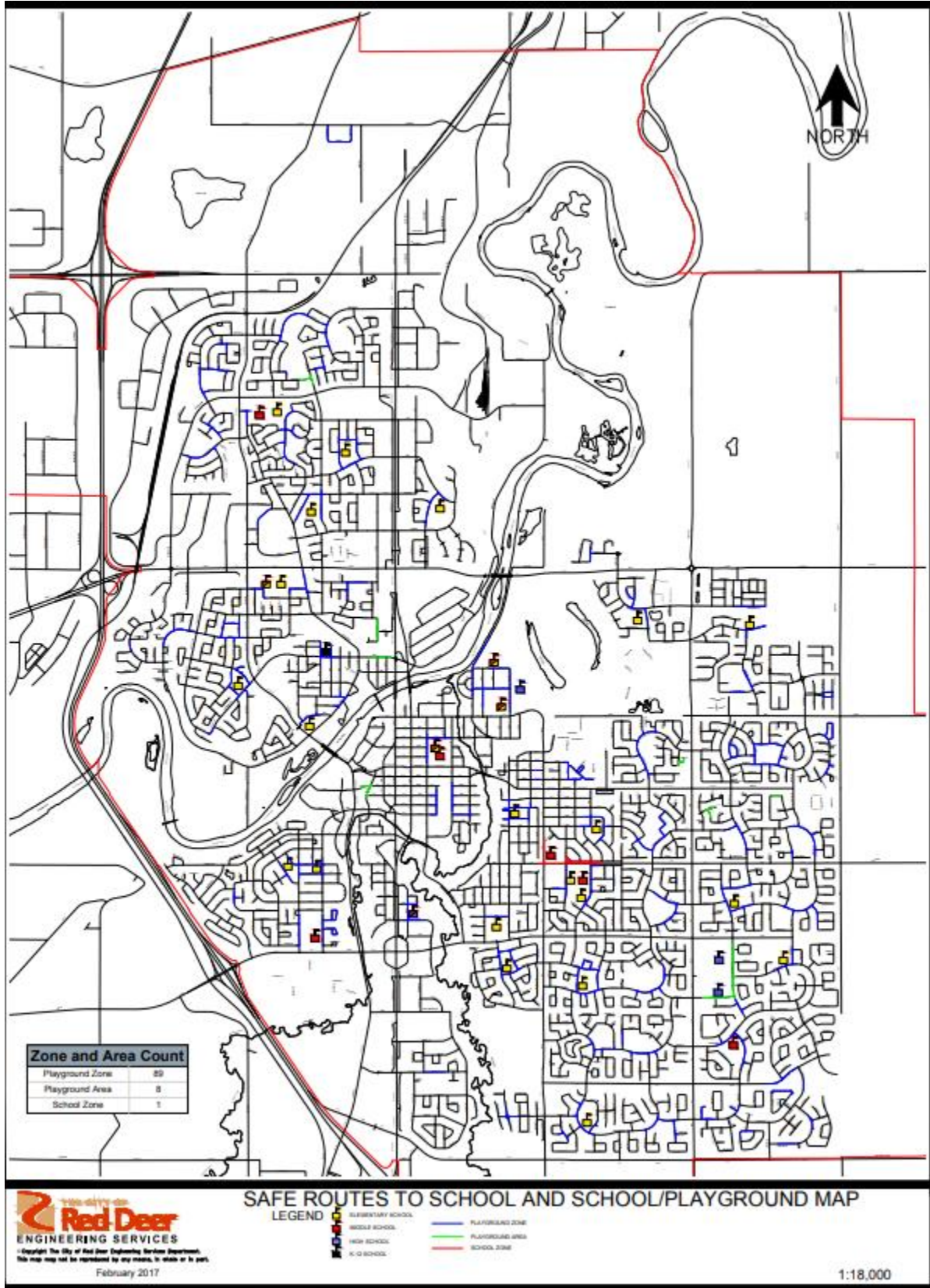
Photo Laser Mobile Units

The primary focus of the Photo Laser Mobile Units is school and playground zone safety. The following page illustrates the 90 playground/school zones in the City of Red Deer. There are 148 Playground/School sites within the zones that are enforced by the Photo Laser Mobile Units. Traffic corridors are monitored as outlined in the criteria defined by the Automated Traffic Enforcement Technology Guidelines, December 2021 version.

Each operator of the Photo Laser Mobile Unit has a valid Peace Officer Appointment from the Assistant Deputy Minister/Director of Law Enforcement of the Public Security Division, Department of Justice and Solicitor General, for the Province of Alberta. The appointment outlines the authority, responsibility and duties while employed by the City of Red Deer and while acting within the scope of his/her employment, to enforce the Traffic Safety Act.

The Photo Laser Mobile Units have adhered to the requirement that “*all mobile units must be clearly identifiable by the public*”. The City chose to have bright yellow signs with blue-colored lettering (10 cm high and stroke of 1.5 cm) placed in front and back of each mobile unit ensuring clear visibility to drivers approaching from either direction. These signs (decals) were approved by the Ministry of Justice and Solicitor General (exact wording and criteria on page 10 of the Automated Traffic Enforcement Technology Guideline, December 2021) and were subsequently installed on all three units in October of 2022.

In 2022, the three Photo Laser Mobile Units monitored 700,459 vehicles with a total \approx 7,063 deployment/enforcement hours in approved Playground, School and Traffic Corridor sites. There were 8,655 speeding contraventions with 7,365 notices issued. There are a number of reasons for non-issuance of offence notices some of which include obstructed plates (dirt, snow, equipment mounted on rear of vehicle, damaged, faded, etc.), out of province and plates or vehicles that were stolen or lost.





The Photo Laser Mobile Unit site enforcement recognized an overall decrease of violations by $\approx 11.95\%$ when comparing 2021 to 2022. The removal of 61 photo laser enforcement traffic corridor sites in June of 2022 is possibly a contributing factor to the reduction.

One of the recent requirements in the new ATE guidelines is the “Multiple Notices within Five Minutes”, (exact wording and criteria on page 10 of the Automated Traffic Enforcement Technology Guideline, December 2021) which states that “*multiple traffic notices shall not be issued to the same vehicle within a five minute period*”. As a result of the activation of all 10 ISD sites, there were 13 additional Photo Laser Mobile Unit sites that were not able to be enforced, removing a total of 74 Photo Laser Mobile Unit sites.

Red-Light Cameras

The primary focus of the ISD is to assist in making the streets safer by reducing the number of traffic offences, which contribute to injuries and fatalities on our roadways. There is a Red-Light Camera infraction increase that is primarily due to the enhancement of technology and its ability to capture more violations in all lanes at any given time. It is acknowledged that other factors such as an increase of drivers, weather conditions, and distracted driving may also contribute to the overall increase in violations. In November 2022 all ten intersection cameras were activated 24/7 increasing the capturing of red-light violations. From 2021 to 2022, there was $\approx 66.49\%$ increase in the number of red-light violations issued.



Intersection Speed Cameras

In 2017, The City of Red Deer Council approved the use of intersection speed technology. In April 2018, The City implemented a new Intersection Safety Device system with the ability to enforce infractions in all lanes of traffic simultaneously. Typically, the first year of implementation of intersection speed technology results in the highest infraction rate as drivers require time to adjust driving behavior and patterns. From 2021 to 2022, there was an overall reduction in speed violations by $\approx 11\%$.

In 2022 a total of $\approx 10,468,332$ motor vehicles travelled through the City's monitored intersections. Of that number there were 12,755 contraventions with 8,065 violations issued for either red light and/or speed infractions.

Table 2 - Public Roadway Collisions*

Year	Total # Public Roadway Collisions	Total # Fatal & Injury Collisions	Total # Collisions at ISD Locations	Total # ISD Fatal & Injury Collisions
2019	2,451	185	184	18
2020	1,883	163	119	13
2021	1,455	144	114	12
2022	1,908	132	143	16

Source: The City of Red Deer Engineering Services

**Public Roadway Collisions include all collisions that occurred on any road or street within the City of Red Deer. Parking lots and alleys are excluded.*

Table 3 - Collision Comparison 2019-2022

2019 compared to 2022

- There is a $\approx 22\%$ overall reduction in total number of collisions
- There is a $\approx 28\%$ overall reduction in injury and fatal collisions
- There is a $\approx 22\%$ overall reduction in collisions at ISD locations
- There is a $\approx 11\%$ overall reduction in fatal & injury collisions at ISD locations

2020 compared to 2022

- There is a $\approx 1\%$ overall increase in total number of collisions
- There is a $\approx 19\%$ overall reduction in injury and fatal collisions
- There is a $\approx 20\%$ overall increase in collisions at ISD locations
- There is a $\approx 23\%$ overall increase in fatal & injury collisions at ISD locations

2021 compared to 2022

- There is a $\approx 31\%$ overall increase in total number of collisions
- There is a $\approx 8\%$ overall reduction in injury and fatal collisions
- There is a $\approx 25\%$ overall increase in collisions at ISD locations
- There is a $\approx 33\%$ overall increase in fatal & injury collisions at ISD locations.

Source: The City of Red Deer Engineering Services



ATE Fine Revenue

Revenue generated through the issuance of a ticket through conventional enforcement or automated traffic enforcement (including photo laser, red light cameras and intersection speed cameras) is divided between The Province and The City – 41.67 % to The Province, which includes a 15 % victim surcharge, and the balance of 58.3 % remains with the City. The City portion, minus administrative costs, is applied directly to policing services in our city.

The net revenue received by The City is \$32,915.19 and is reflected in Table 4.

Table 4 - ATE Fine Revenue Summary 2022

ATE Fine Revenue Summary 2022					
	Month	Photo Radar	Red Light Camera	Speed on Green	Total ATE Revenue by Month
	Jan	39,817.25	6,775.56	39,037.68	85,630.49
	Feb	32,991.85	6,079.90	31,009.89	70,081.64
	Mar	34,117.76	5,727.32	38,202.75	78,047.83
	Apr	29,818.52	5,450.57	33,479.12	68,748.21
	May	52,140.39	6,223.62	40,718.86	99,082.87
	Jun	49,947.03	8,806.19	59,683.68	118,436.90
	Jul	50,283.94	5,357.16	52,480.64	108,121.74
	Aug	60,836.39	8,662.46	61,400.86	130,899.71
	Sep	47,936.88	5,545.41	49,094.68	102,576.97
	Oct	49,889.53	5,128.08	44,983.83	100,001.44
	Nov	49,147.00	5,303.46	50,780.50	105,230.96
	Dec	26,481.65	9,231.51	41,172.79	76,885.95
	Total	523,408.19	78,291.24	542,045.28	1,143,744.71
The ATE fine revenue are utilized in the below areas to support ATE operations. These expenses are direct costs of operating the ATE program.					
Category 2	Expenditure ▾				
Row Labels	Sum of Amount				
☒ Commissionaires	513,128.72				
☒ Conduent	445,087.72				
☒ Salaries	109,571.86				
☒ Fleet Expense (e.g. R&M of fleet vehicles)	38,802.40				
☒ General Operational Expenses (e.g. Telephone, Supplies, Equipment Repair, etc)	3,063.82				
☒ Capital Investment (CPO Workstation)	1,175.00				
Grand Total	1,110,829.52				

Our Commitment

The City of Red Deer, Municipal Policing Services, RCMP, and the Province of Alberta all share the same end goal - to make our roadways safer. Through the ATE Program and continued public education, the City remains dedicated to reducing both the occurrence and severity of collisions and the resulting injuries and fatalities, as well as reducing property damages in our community.

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