



# Archer Ave and Harlem Ave <Eastbound and Southbound>



## Summit, IL RLR 3 Year Follow-Up Evaluation Report

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Reference No: 016-56016  
May 2022

# VILLAGE OF SUMMIT

## DEPARTMENT OF POLICE

5810 S. Archer Road, Summit, IL 60501

EMERGENCY:  
911

NON-EMERGENCY:  
(708) 563-4830

FAX:  
(708) 458-9256

JOHN KOSMOWSKI  
Chief of Police  
[chiefkosmowski@summitpd.net](mailto:chiefkosmowski@summitpd.net)

May 18, 2022

Thomas G. Gallenbach, P.E.  
Area Permit Engineer  
Illinois Department of Transportation  
Bureau of Traffic  
201 West Center Court  
Schaumburg, Illinois 60196-1096

RE: RLR 3 Year Follow-Up Evaluation Report  
Archer Avenue and Harlem Avenue <Eastbound and Southbound>  
City of Summit  
Reference No. 016-56016

Dear Mr. Gallenbach:

Please find enclosed a copy of the 3 Year RLR Follow-Up Evaluation Report for the intersection of Archer Avenue and Harlem Avenue, Summit, Illinois.

In this submittal, included are: RLR Camera Location, Implementation Date, System Manufacturer and Contractors, RLR Crash Data and Analysis, Traffic Volume History, Summary of Adjudication and Summary section.

If you have any questions with regard to this submittal or require any additional information, please feel free to contact us at 708-563-8101, [chiefkosmowski@summitpd.net](mailto:chiefkosmowski@summitpd.net).

Best Regards,



On behalf of the City of Summit  
John Kosmowski  
Chief of Police

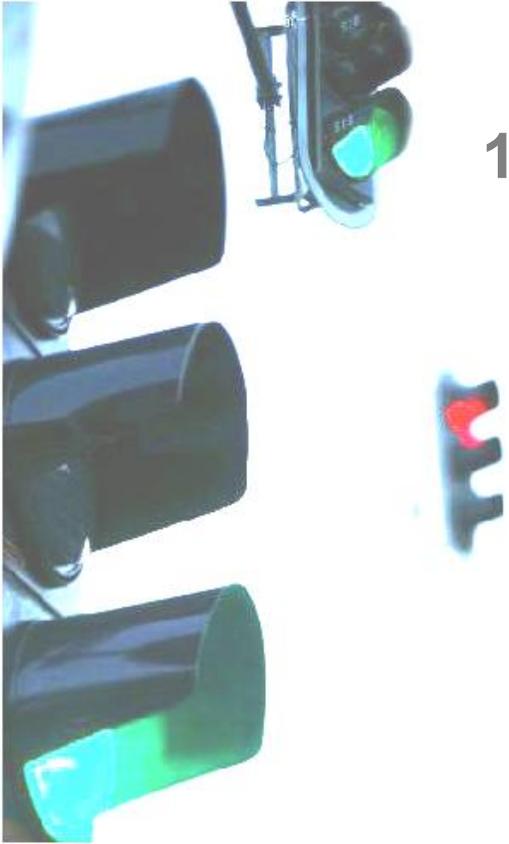
# 3 Year Evaluation Checklist

## RLR FOLLOW-UP EVALUATION REPORT CHECKLIST

Reference Number:			Date:
Location:			Firm:
Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intersection location and RLR camera approaches identified
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of RLR camera implementation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RLR camera system manufacturer and contractor name
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crash data including 3 years prior to RLR camera installation with post period crash data
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Analysis of crash data
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signal timing changes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic volumes before and after RLR cameras
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recommendations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Summary of adjudication experience and results

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System Manufacturer and Contractors
2. RLR Crash Data and Analysis
3. Traffic Volume
4. Summary of Adjudication
5. Report Summary and Recommendation



# 1. RLR Camera Location, Live Date, System Manufacturer and Contractor

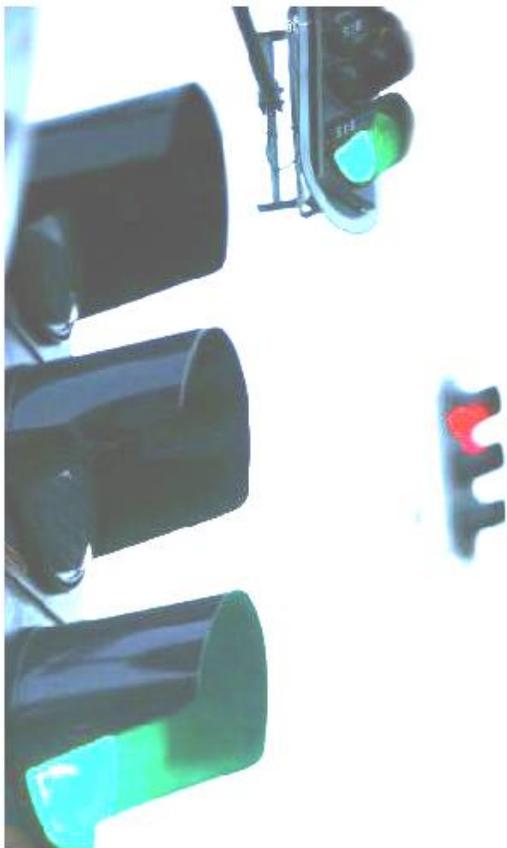
In 2012, the **Village of Summit** received approval from the Illinois Department of Transportation (IDOT) to install a Red Light Running (RLR) camera on the **Eastbound and Southbound** approaches at the intersection of **Archer Ave and Harlem Ave**.

- Date on which the cameras went live on the eastbound and southbound approach: **05/2013**
- Year in which the 1 Year Follow-Up Evaluation Report was submitted to the IDOT: **2015**
- Year in which the 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **2020**

No changes were made to the traffic signal timing or any other settings pertaining to operation of traffic signals at this intersection following the camera installation.

Below are the RLR camera system manufacturer and contractor information.

<p>RLR Camera System Manufacturer</p> <p><b>SafeSpeed, LLC</b> 150 North Wacker Drive Floor 8 Chicago, IL 60606</p> <p>Phone: (877) 237-2331 Fax: (877) 237-2302 Email: <a href="mailto:info@safespeedllc.com">info@safespeedllc.com</a> Web: <a href="http://safespeedllc.com">safespeedllc.com</a></p> <p>Key Contact: Ryan Kim Phone: (312) 924-7248 Email: <a href="mailto:rkim@safespeedllc.com">rkim@safespeedllc.com</a></p>	<p>Electrical Contractor</p> <p><b>Meade Electric Company</b> 625 Willowbrook Center Parkway Willowbrook, IL 60527</p> <p>Phone: (708) 588-2500 Fax: (708) 588-2501 Email: <a href="mailto:info@meadeelectric.com">info@meadeelectric.com</a> Web: <a href="http://meadeelectric.com">meadeelectric.com</a></p> <p>Key Contact: Mr. Michael Knutson Phone: (708) 588-2500 Email: <a href="mailto:mkk@meade100.com">mkk@meade100.com</a></p>
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## 2. RLR Crash Data and Analysis

The table below shows a summary of motor vehicle crashes at the intersection of **Archer Ave and Harlem Ave** over a span of 12 years\*.

	Angle	Head On/ Overturned	Turning	Rear End	Pedestrian/ Pedalcyclist	Sideswipe	Fixed Object	Parked Motor Vehicle	Total
<b>2009</b>	1	0	14	20	0	1	0	0	36
<b>2010</b>	4	0	11	16	0	0	0	0	31
<b>2011</b>	2	0	8	9	3	0	1	0	23
<b>2012</b>	1	1	8	15	0	1	0	0	26
<b>2013</b>	2	0	9	13	0	3	0	0	27
<b>2014</b>	0	1	14	9	0	0	0	0	24
<b>2015</b>	3	2	13	7	1	0	0	0	26
<b>2016</b>	3	0	7	14	0	3	1	0	28
<b>2017</b>	2	0	13	9	1	4	1	0	30
<b>2018</b>	2	0	10	9	1	0	0	1	23
<b>2019</b>	3	1	7	1	2	1	0	0	15
<b>2020</b>	1	1	9	7	0	2	0	0	20

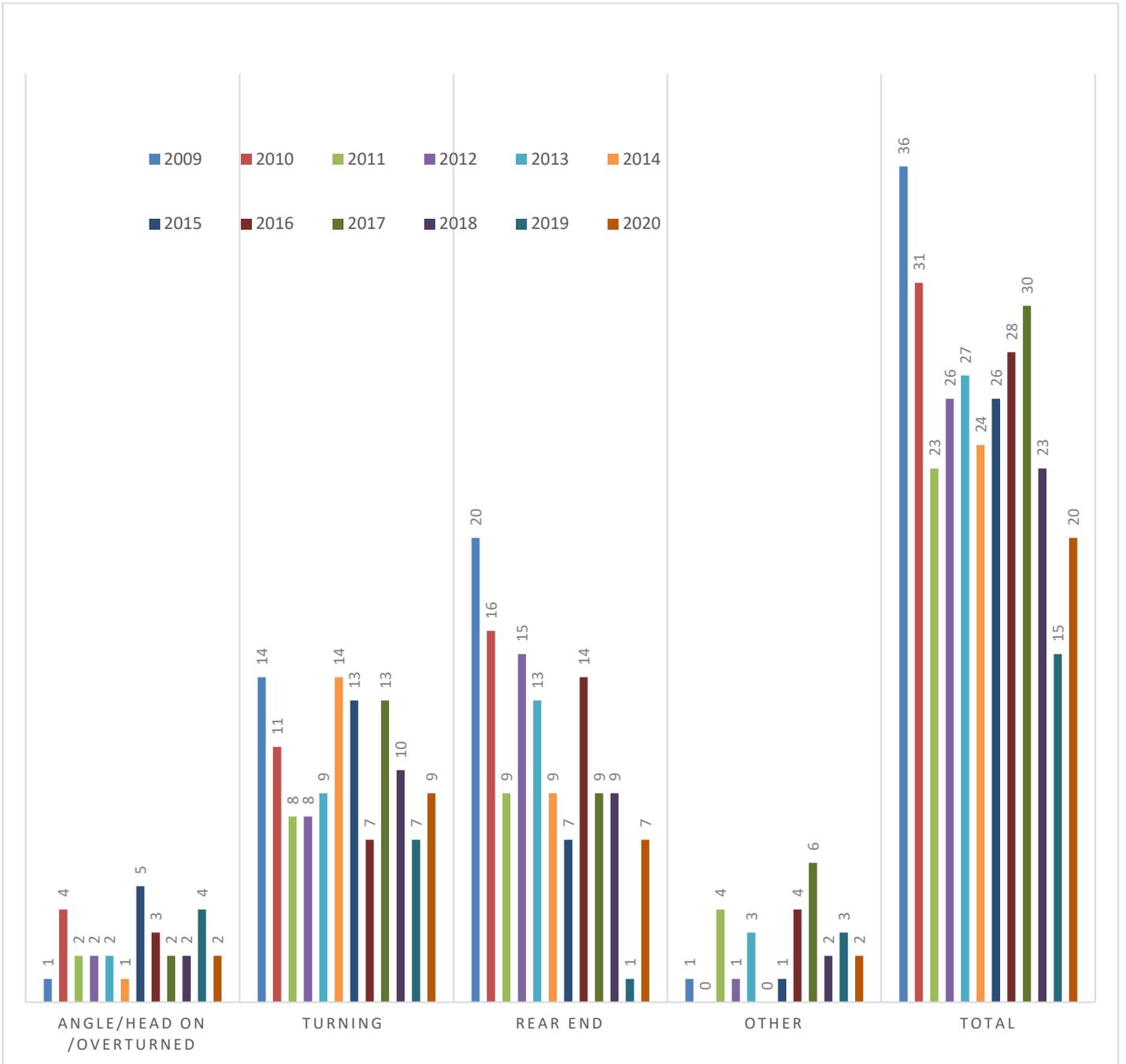
The data from 2009-2012 shows the period prior to the installation of the RLR cameras.

The data from 2013 shows the year in which the cameras were installed.

The data from 2014-2020 shows the period following the installation.

\* DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation. Any conclusions drawn from analysis of the aforementioned data are the sole responsibility of the data recipient(s). Additionally, for coding years 2015 to present, the Bureau of Data Collection uses the exact latitude/longitude supplied by the investigating law enforcement agency to locate crashes. Therefore, location data may vary in previous years since data prior to 2015 was physically located by bureau personnel.

The Chart below shows the trend of each crash type from 2009-2020.



	Type Year	Angle/Head On /Overturned	Turning	Rear End	Other*	Total	Yearly Average
Before Installation	2009	1	14	20	1	36	29
	2010	4	11	16	0	31	
	2011	2	8	9	4	23	
	2012	2	8	15	1	26	
	2013	2	9	13	3	27	
After Installation	2014	1	14	9	0	24	23.71
	2015	5	13	7	1	26	
	2016	3	7	14	4	28	
	2017	2	13	9	6	30	
	2018	2	10	9	2	23	
	2019	4	7	1	3	15	
	2020	2	9	7	2	20	

\* Other crashes include: Pedestrian/Pedalcyclist, Sideswipe, Fixed Object and Parked Motor Vehicle.

From 2009-2012, prior to RLR camera installation, there were 116 total crashes; this averages out to 29 crashes a year.

From 2014-2020, post RLR camera installation, there were 166 total crashes; this averages out to 23.71 crashes per year – a 18.23% reduction of overall crashes in direct comparison with the time period aforementioned.

The following pages contain crash data summary pages from 2009-2020. The complete crash data can be obtained by contacting the IDOT via [DOT.DTS.DataRequests@illinois.gov](mailto:DOT.DTS.DataRequests@illinois.gov).

### Collision Diagram

1/1/2009 to 12/31/2009

Crash Route: IL043 | From MileStation 19.92 to 19.92 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
36	0	0	2	6	28	0	11	0	2	9

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	14	38.9%	Monday	3	8.3%	Midnight	1	2.8%	Bus up to 15 pass	1	1.3%
11-Rear end	20	55.6%	Tuesday	5	13.9%	02 AM	2	5.6%	Motorcycle (over 150cc)	1	1.3%
12-Sideswipe same direction	1	2.8%	Wednesday	3	8.3%	03 AM	1	2.8%	Other	1	1.3%
15-Angle	1	2.8%	Thursday	7	19.4%	04 AM	1	2.8%	Passenger	48	62.3%
<b>TOTAL:</b>	<b>36</b>		Friday	5	13.9%	06 AM	2	5.6%	Pickup	7	9.1%
			Saturday	10	27.8%	08 AM	3	8.3%	Sport utility vehicle (SUV)	13	16.9%
			Sunday	3	8.3%	10 AM	3	8.3%	Truck - single unit	1	1.3%
			<b>TOTAL:</b>	<b>36</b>		11 AM	1	2.8%	Unknown/NA	1	1.3%
						Noon	1	2.8%	Van/mini van	4	5.2%
						2 PM	2	5.6%	<b>TOTAL:</b>	<b>77</b>	
						3 PM	1	2.8%			
						4 PM	3	8.3%			
						5 PM	1	2.8%			
						6 PM	5	13.9%			
						7 PM	4	11.1%			
						8 PM	2	5.6%			
						9 PM	1	2.8%			
						10 PM	1	2.8%			
						11 PM	1	2.8%			
						<b>TOTAL:</b>	<b>36</b>				

### Collision Diagram

1/1/2010 to 12/31/2010

Crash Route: IL043 | From MileStation 19.92 to 19.92 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
31	0	2	3	4	22	0	14	2	4	8

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	11	35.5%	Monday	1	3.2%	Midnight	1	3.2%	Bus over 15 pass.	1	1.5%
11-Rear end	16	51.6%	Tuesday	4	12.9%	01 AM	1	3.2%	Passenger	42	63.6%
15-Angle	4	12.9%	Wednesday	5	16.1%	02 AM	2	6.5%	Pickup	7	10.6%
<b>TOTAL:</b>	<b>31</b>		Thursday	10	32.3%	04 AM	2	6.5%	Sport utility vehicle (SUV)	11	16.7%
			Friday	3	9.7%	05 AM	2	6.5%	Tractor w/o semi-trailer	1	1.5%
			Saturday	2	6.5%	08 AM	3	9.7%	Truck – single unit	1	1.5%
			Sunday	6	19.4%	10 AM	3	9.7%	Van/mini van	3	4.5%
			<b>TOTAL:</b>	<b>31</b>		11 AM	4	12.9%	<b>TOTAL:</b>	<b>66</b>	
						1 PM	2	6.5%			
						2 PM	3	9.7%			
						3 PM	1	3.2%			
						5 PM	1	3.2%			
						7 PM	1	3.2%			
						8 PM	2	6.5%			
						9 PM	2	6.5%			
						10 PM	1	3.2%			
						<b>TOTAL:</b>	<b>31</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	28	90.3%	Darkness/Lighted road	14	45.2%	Dry	27	87.1%	East	20	30.3%
Other	1	3.2%	Daylight	17	54.8%	Snow or slush	2	6.5%	North	19	28.8%

### Collision Diagram

1/1/2011 to 12/31/2011

Crash Route: IL043 | From MileStation 19.92 to 19.92 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>23</u>	<u>0</u>	<u>2</u>	<u>7</u>	<u>0</u>	<u>14</u>	<u>0</u>	<u>14</u>	<u>2</u>	<u>10</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	8	34.8%	Tuesday	5	21.7%	01 AM	1	4.3%	Motor driven cycle	1	2.2%
11-Rear end	9	39.1%	Wednesday	2	8.7%	02 AM	1	4.3%	Motorcycle (over 150cc)	1	2.2%
15-Angle	2	8.7%	Thursday	5	21.7%	05 AM	3	13.0%	Passenger	23	51.1%
1-Pedestrian	2	8.7%	Friday	3	13.0%	06 AM	1	4.3%	Pickup	3	6.7%
2-Pedalcyclist	1	4.3%	Saturday	3	13.0%	11 AM	3	13.0%	Sport utility vehicle (SUV)	6	13.3%
6-Fixed object	1	4.3%	Sunday	5	21.7%	1 PM	2	8.7%	Tractor w/ semi-trailer	2	4.4%
<b>TOTAL:</b>	<b>23</b>		<b>TOTAL:</b>	<b>23</b>		5 PM	3	13.0%	Tractor w/o semi-trailer	2	4.4%
						6 PM	2	8.7%	Truck – single unit	3	6.7%
						8 PM	1	4.3%	Van/mini van	4	8.9%
						9 PM	3	13.0%	<b>TOTAL:</b>	<b>45</b>	
						10 PM	1	4.3%			
						11 PM	2	8.7%			
						<b>TOTAL:</b>	<b>23</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	17	73.9%	Darkness	3	13.0%	Dry	16	69.6%	East	10	22.2%
Other	1	4.3%	Darkness/Lighted road	11	47.8%	Unknown	1	4.3%	North	17	37.8%
Rain	5	21.7%	Daylight	9	39.1%	Wet	6	26.1%	Northeast	1	2.2%
<b>TOTAL:</b>	<b>23</b>		<b>TOTAL:</b>	<b>23</b>		<b>TOTAL:</b>	<b>23</b>		Northwest	2	4.4%
									South	3	6.7%
									Southeast	2	4.4%

### Collision Diagram

1/1/2012 to 12/31/2012

Crash Route: IL043 | From MileStation 19.92 to 19.92 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>26</u>	<u>0</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>20</u>	<u>0</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>5</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	3.8%	Monday	6	23.1%	Midnight	1	3.8%	Motorcycle (Over 150cc)	1	1.9%
Overturned	1	3.8%	Tuesday	1	3.8%	01 AM	1	3.8%	Passenger	31	57.4%
Rear End	15	57.7%	Wednesday	3	11.5%	02 AM	1	3.8%	Pickup	3	5.6%
Sideswipe Same Direction	1	3.8%	Thursday	3	11.5%	03 AM	2	7.7%	SUV	12	22.2%
Turning	8	30.8%	Friday	4	15.4%	04 AM	1	3.8%	Tractor With Semi-Trailer	3	5.6%
<b>TOTAL:</b>	<b>26</b>		Saturday	5	19.2%	05 AM	1	3.8%	Van/Mini-Van	4	7.4%
			Sunday	4	15.4%	06 AM	4	15.4%	<b>TOTAL:</b>	<b>54</b>	
			<b>TOTAL:</b>	<b>26</b>		07 AM	2	7.7%			
						08 AM	1	3.8%			
						09 AM	2	7.7%			
						11 AM	2	7.7%			
						Noon	1	3.8%			
						1 PM	1	3.8%			
						3 PM	1	3.8%			
						6 PM	3	11.5%			
						7 PM	1	3.8%			
						11 PM	1	3.8%			
						<b>TOTAL:</b>	<b>26</b>				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	22	84.6%	Darkness	4	15.4%	Dry	20	76.9%	East	11	20.4%

### Collision Diagram

1/1/2013 to 12/31/2013

Crash Route: IL043 | From MileStation 19.92 to 19.92 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
27	0	0	1	4	22	0	8	0	1	7

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	7.4%	Monday	2	7.4%	01 AM	1	3.7%	Motorcycle (Over 150cc)	1	1.6%
Rear End	13	48.1%	Tuesday	4	14.8%	02 AM	1	3.7%	Passenger	40	62.5%
Sideswipe Same Direction	3	11.1%	Wednesday	8	29.6%	03 AM	2	7.4%	Pickup	3	4.7%
Turning	9	33.3%	Thursday	5	18.5%	06 AM	2	7.4%	SUV	10	15.6%
<b>TOTAL:</b>	<b>27</b>		Friday	4	14.8%	08 AM	1	3.7%	Tractor With Semi-Trailer	2	3.1%
			Saturday	3	11.1%	09 AM	3	11.1%	Truck Single Unit	1	1.6%
			Sunday	1	3.7%	10 AM	1	3.7%	Van/Mini-Van	7	10.9%
			<b>TOTAL:</b>	<b>27</b>		11 AM	1	3.7%	<b>TOTAL:</b>	<b>64</b>	
						Noon	1	3.7%			
						1 PM	1	3.7%			
						3 PM	2	7.4%			
						4 PM	2	7.4%			
						5 PM	3	11.1%			
						7 PM	3	11.1%			
						9 PM	1	3.7%			
						10 PM	1	3.7%			
						11 PM	1	3.7%			
						<b>TOTAL:</b>	<b>27</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	20	74.1%	Darkness	1	3.7%	Dry	19	70.4%	East	17	26.6%

### Collision Diagram

1/1/2014 to 12/31/2014

Crash Route: IL043 | From MileStation 19.92 to 19.92 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>24</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>3</u>	<u>17</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>9</u>	<u>8</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Head On	1	4.2%	Monday	3	12.5%	01 AM	1	4.2%	Motorcycle (Over 150cc)	1	2.1%
Rear End	9	37.5%	Tuesday	3	12.5%	06 AM	2	8.3%	Passenger	35	72.9%
Turning	14	58.3%	Wednesday	2	8.3%	07 AM	1	4.2%	Pickup	1	2.1%
<b>TOTAL:</b>	<b>24</b>		Thursday	5	20.8%	08 AM	1	4.2%	SUV	7	14.6%
			Friday	5	20.8%	09 AM	1	4.2%	Tractor With Semi-Trailer	1	2.1%
			Saturday	3	12.5%	11 AM	4	16.7%	Truck Single Unit	3	6.3%
			Sunday	3	12.5%	Noon	1	4.2%	<b>TOTAL:</b>	<b>48</b>	
			<b>TOTAL:</b>	<b>24</b>		2 PM	1	4.2%			
						3 PM	1	4.2%			
						5 PM	1	4.2%			
						6 PM	1	4.2%			
						7 PM	2	8.3%			
						8 PM	4	16.7%			
						9 PM	1	4.2%			
						10 PM	1	4.2%			
						11 PM	1	4.2%			
						<b>TOTAL:</b>	<b>24</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	79.2%	Darkness	3	12.5%	Dry	16	66.7%	East	16	33.3%
Rain	3	12.5%	Darkness/ Lighted Road	9	37.5%	Snow or Slush	2	8.3%	North	8	16.7%

### Coordinate Collision Diagram Report

1/1/2015 to 12/31/2015

For XCoordinate 2941538.3563855 : YCoordinate 1875584.19510101 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>26</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>24</u>	<u>0</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	11.5%	Monday	3	11.5%	Midnight	1	3.8%	Passenger	34	64.2%
Head On	2	7.7%	Tuesday	4	15.4%	05 AM	4	15.4%	Pickup	1	1.9%
Pedestrian	1	3.8%	Wednesday	4	15.4%	09 AM	1	3.8%	SUV	11	20.8%
Rear End	7	26.9%	Thursday	4	15.4%	10 AM	2	7.7%	Tractor With Semi-Trailer	1	1.9%
Turning	13	50.0%	Friday	1	3.8%	Noon	3	11.5%	Unknown	1	1.9%
<b>TOTAL:</b>	<b>26</b>		Saturday	8	30.8%	1 PM	2	7.7%	Van/Mini-Van	5	9.4%
			Sunday	2	7.7%	2 PM	2	7.7%	<b>TOTAL:</b>	<b>53</b>	
			<b>TOTAL:</b>	<b>26</b>		3 PM	2	7.7%			
						4 PM	1	3.8%			
						5 PM	1	3.8%			
						6 PM	1	3.8%			
						7 PM	2	7.7%			
						8 PM	1	3.8%			
						9 PM	1	3.8%			
						10 PM	1	3.8%			
						11 PM	1	3.8%			
						<b>TOTAL:</b>	<b>26</b>				

### Coordinate Collision Diagram Report

1/1/2016 to 12/31/2016

For XCoordinate 2941538.3563855 : YCoordinate 1875584.19510101 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>28</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>1</u>	<u>23</u>	<u>0</u>	<u>6</u>	<u>0</u>	<u>5</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	10.7%	Monday	1	3.6%	Midnight	2	7.1%	Passenger	33	57.9%
Fixed Object	1	3.6%	Tuesday	6	21.4%	03 AM	2	7.1%	Pickup	6	10.5%
Rear End	14	50.0%	Wednesday	7	25.0%	04 AM	1	3.6%	SUV	6	10.5%
Sideswipe Same Direction	3	10.7%	Thursday	3	10.7%	06 AM	1	3.6%	Tractor With Semi-Trailer	5	8.8%
Turning	7	25.0%	Friday	3	10.7%	07 AM	1	3.6%	Tractor Without Semi-Trailer	1	1.8%
<b>TOTAL:</b>	<b>28</b>		Saturday	3	10.7%	08 AM	2	7.1%	Truck Single Unit	1	1.8%
			Sunday	5	17.9%	10 AM	2	7.1%	Van/Mini-Van	5	8.8%
			<b>TOTAL:</b>	<b>28</b>		11 AM	1	3.6%	<b>TOTAL:</b>	<b>57</b>	
						Noon	3	10.7%			
						1 PM	2	7.1%			
						2 PM	3	10.7%			
						4 PM	3	10.7%			
						5 PM	1	3.6%			
						6 PM	2	7.1%			
						8 PM	2	7.1%			
						<b>TOTAL:</b>	<b>28</b>				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	22	78.6%	Darkness	2	7.1%	Dry	21	75.0%	East	10	17.5%

### Coordinate Collision Diagram Report

1/1/2017 to 12/31/2017

For XCoordinate 2941538.3563855 : YCoordinate 1875584.19510101 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>30</u>	<u>0</u>	<u>0</u>	<u>6</u>	<u>2</u>	<u>22</u>	<u>0</u>	<u>13</u>	<u>0</u>	<u>9</u>	<u>4</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	6.7%	Monday	2	6.7%	01 AM	1	3.3%	Passenger	33	53.2%
Fixed Object	1	3.3%	Tuesday	6	20.0%	02 AM	1	3.3%	Pickup	7	11.3%
Pedestrian	1	3.3%	Wednesday	5	16.7%	06 AM	2	6.7%	SUV	9	14.5%
Rear End	9	30.0%	Thursday	4	13.3%	07 AM	2	6.7%	Tractor With Semi-Trailer	3	4.8%
Sideswipe Opposite Direction	1	3.3%	Friday	7	23.3%	08 AM	3	10.0%	Tractor Without Semi-Trailer	2	3.2%
Sideswipe Same Direction	3	10.0%	Saturday	5	16.7%	09 AM	2	6.7%	Truck Single Unit	1	1.6%
Turning	13	43.3%	Sunday	1	3.3%	Noon	1	3.3%	Unknown	1	1.6%
<b>TOTAL:</b>	<b>30</b>		<b>TOTAL:</b>	<b>30</b>		1 PM	4	13.3%	Van/Mini-Van	6	9.7%
						2 PM	2	6.7%	<b>TOTAL:</b>	<b>62</b>	
						3 PM	1	3.3%			
						4 PM	4	13.3%			
						5 PM	1	3.3%			
						6 PM	3	10.0%			
						7 PM	2	6.7%			
						11 PM	1	3.3%			
						<b>TOTAL:</b>	<b>30</b>				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	23	76.7%	Darkness	1	3.3%	Dry	24	80.0%	East	7	11.3%

### Coordinate Collision Diagram Report

1/1/2018 to 12/31/2018

For XCoordinate 2941536.721 : YCoordinate 1875584.622 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>23</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>18</u>	<u>1</u>	<u>7</u>	<u>1</u>	<u>4</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	8.7%	Monday	6	26.1%	02 AM	1	4.3%	Passenger	24	50.0%
Front to Rear	9	39.1%	Tuesday	2	8.7%	04 AM	3	13.0%	Pickup	6	12.5%
Parked Motor Vehicle	1	4.3%	Wednesday	2	8.7%	05 AM	2	8.7%	SUV	11	22.9%
Pedestrian	1	4.3%	Thursday	5	21.7%	06 AM	3	13.0%	Tractor With Semi-Trailer	4	8.3%
Turning	10	43.5%	Friday	1	4.3%	Noon	2	8.7%	Unknown	2	4.2%
<b>TOTAL:</b>	<b>23</b>		Saturday	3	13.0%	1 PM	1	4.3%	Van/Mini-Van	1	2.1%
			Sunday	4	17.4%	3 PM	1	4.3%	<b>TOTAL:</b>	<b>48</b>	
			<b>TOTAL:</b>	<b>23</b>		4 PM	3	13.0%			
						6 PM	1	4.3%			
						7 PM	2	8.7%			
						8 PM	1	4.3%			
						10 PM	2	8.7%			
						11 PM	1	4.3%			
						<b>TOTAL:</b>	<b>23</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	82.6%	Darkness	3	13.0%	Dry	18	78.3%	East	8	16.7%
Rain	2	8.7%	Darkness, Lighted Road	8	34.8%	Snow or Slush	2	8.7%	North	6	12.5%
Snow	1	4.3%	Daylight	11	47.8%	Unknown	1	4.3%	Northeast	2	4.2%

### Coordinate Collision Diagram Report

1/1/2019 to 12/31/2019

For XCoordinate 2941536.721 : YCoordinate 1875584.622 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>15</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>1</u>	<u>3</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	20.0%	Monday	2	13.3%	02 AM	1	6.7%	Other	1	3.1%
Front to Front	1	6.7%	Tuesday	1	6.7%	03 AM	2	13.3%	Passenger	23	71.9%
Front to Rear	1	6.7%	Wednesday	1	6.7%	05 AM	1	6.7%	Pickup	2	6.3%
Pedestrian	2	13.3%	Thursday	1	6.7%	10 AM	2	13.3%	SUV	4	12.5%
Sideswipe Same Direction	1	6.7%	Friday	3	20.0%	Noon	1	6.7%	Tractor With Semi-Trailer	2	6.3%
Turning	7	46.7%	Saturday	5	33.3%	3 PM	2	13.3%	<b>TOTAL:</b>	<b>32</b>	
<b>TOTAL:</b>	<b>15</b>		Sunday	2	13.3%	6 PM	1	6.7%			
			<b>TOTAL:</b>	<b>15</b>		7 PM	1	6.7%			
						8 PM	1	6.7%			
						9 PM	1	6.7%			
						10 PM	1	6.7%			
						11 PM	1	6.7%			
						<b>TOTAL:</b>	<b>15</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	12	80.0%	Darkness	3	20.0%	Dry	10	66.7%	East	8	25.0%
Rain	2	13.3%	Darkness, Lighted Road	6	40.0%	Snow or Slush	1	6.7%	North	5	15.6%
Snow	1	6.7%	Daylight	6	40.0%	Wet	4	26.7%	South	11	34.4%
<b>TOTAL:</b>	<b>15</b>		<b>TOTAL:</b>	<b>15</b>		<b>TOTAL:</b>	<b>15</b>		Southeast	1	3.1%

### Coordinate Collision Diagram Report

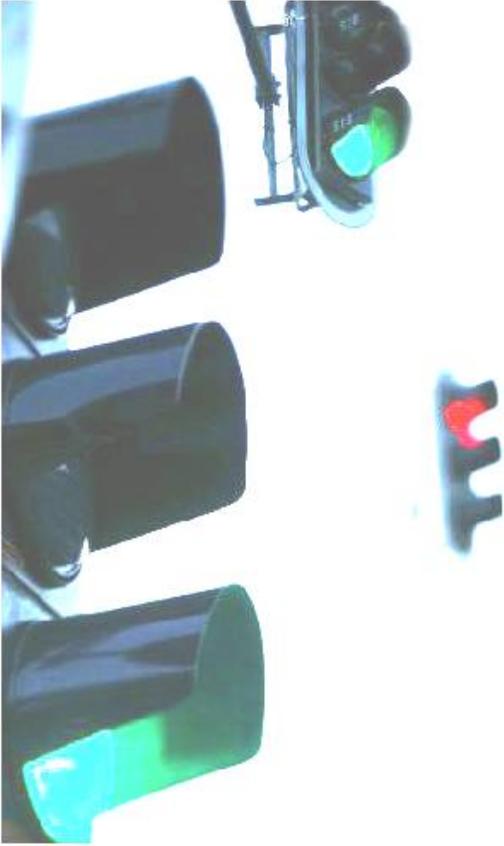
1/1/2020 to 12/31/2020

For XCoordinate 2941536.721 : YCoordinate 1875584.622 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>20</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>2</u>	<u>15</u>	<u>0</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>3</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	5.0%	Monday	5	25.0%	04 AM	1	5.0%	Motorcycle	1	2.5%
Front to Rear	7	35.0%	Tuesday	2	10.0%	05 AM	1	5.0%	Passenger	32	80.0%
Overtuned	1	5.0%	Wednesday	2	10.0%	06 AM	3	15.0%	Single Unit Truck with Trailer	2	5.0%
Sideswipe Same Direction	2	10.0%	Thursday	7	35.0%	08 AM	1	5.0%	SUV	1	2.5%
Turning	9	45.0%	Friday	2	10.0%	10 AM	1	5.0%	Tractor With Semi-Trailer	1	2.5%
<b>TOTAL:</b>	<b>20</b>		Saturday	2	10.0%	Noon	1	5.0%	Tractor Without Semi-Trailer	1	2.5%
			<b>TOTAL:</b>	<b>20</b>		3 PM	4	20.0%	Unknown	1	2.5%
						5 PM	2	10.0%	Van/Mini-Van	1	2.5%
						6 PM	2	10.0%	<b>TOTAL:</b>	<b>40</b>	
						7 PM	2	10.0%			
						8 PM	1	5.0%			
						9 PM	1	5.0%			
						<b>TOTAL:</b>	<b>20</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	15	75.0%	Darkness, Lighted Road	5	25.0%	Dry	13	65.0%	East	11	27.5%
Cloudy/Overcast	2	10.0%	Dawn	3	15.0%	Snow or Slush	1	5.0%	North	10	25.0%
Rain	3	15.0%	Daylight	10	50.0%	Wet	6	30.0%	Northeast	2	5.0%
<b>TOTAL:</b>	<b>20</b>					<b>TOTAL:</b>	<b>20</b>		Northwest	1	2.5%



## 3. Traffic Volume

The table below shows a summary of the Average Daily Traffic Count (ADTC) at the intersection of **Archer Ave and Harlem Ave** over a span of 11 years.

The history of available ADTC on each approach was obtained from the IDOT website per the RLR Guideline document published by the IDOT and recorded in **bold** below.

(<http://www.gettingaroundillinois.com/gai.htm?mt=aadt>)

The data from 2010-2012 shows the period prior to the installation of the RLR cameras.

The data from 2013 shows the year in which the cameras were installed.

The data from 2014-2020 shows the period following the installation.

	Direction Year	Eastbound	Westbound	Northbound	Southbound	Combined	Combined Avg
	Before Installation	<b>2010</b>	<b>29,000</b>	<b>33,800</b>	45,500	43,800	<b>152,100</b>
<b>2011</b>		29,000	33,800	45,500	43,800	<b>152,100</b>	
<b>2012</b>		29,000	33,800	<b>45,800</b>	<b>46,000</b>	<b>154,600</b>	
	<b>2013</b>	29,000	33,800	<b>45,100</b>	<b>45,600</b>	<b>153,500</b>	
After Installation	<b>2014</b>	<b>26,500</b>	<b>29,500</b>	45,100	45,600	<b>146,700</b>	<b>144,357</b>
	<b>2015</b>	26,500	29,500	<b>40,000</b>	<b>44,700</b>	<b>140,700</b>	
	<b>2016</b>	26,500	29,500	40,000	44,700	<b>140,700</b>	
	<b>2017</b>	26,500	29,500	<b>46,800</b>	<b>38,900</b>	<b>141,700</b>	
	<b>2018</b>	<b>28,200</b>	<b>32,200</b>	46,800	38,900	<b>146,100</b>	
	<b>2019</b>	28,200	32,200	<b>44,200</b>	<b>42,700</b>	<b>147,300</b>	
	<b>2020</b>	28,200	32,200	44,200	42,700	<b>147,300</b>	

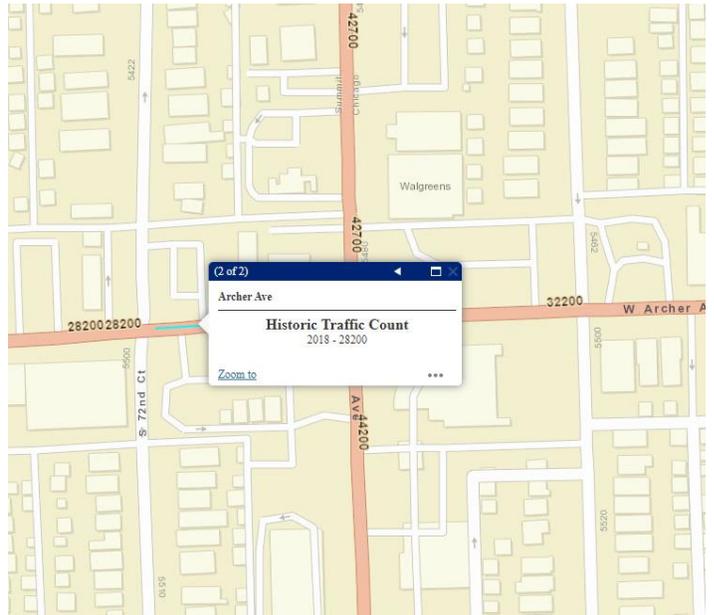
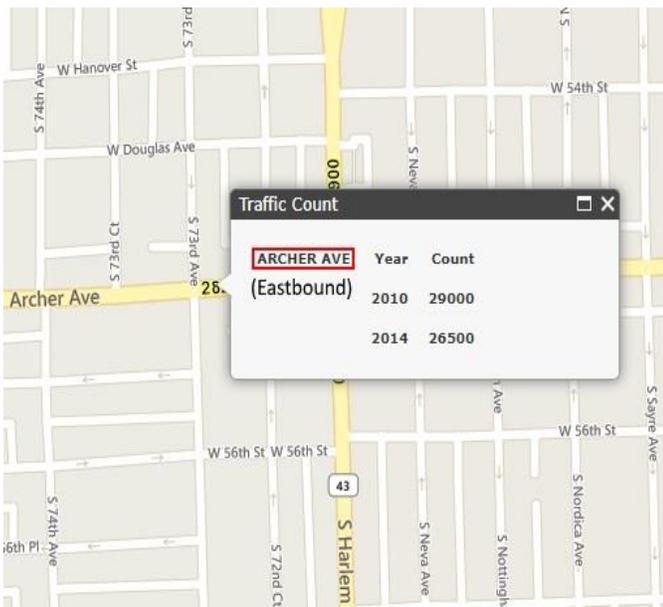
From 2010-2012, prior to RLR camera installation, the combined average of ADTC was 152,933.

From 2014-2020, post RLR camera installation, the combined average of ADTC was 144,357 - a slight decrease of 5.61%.

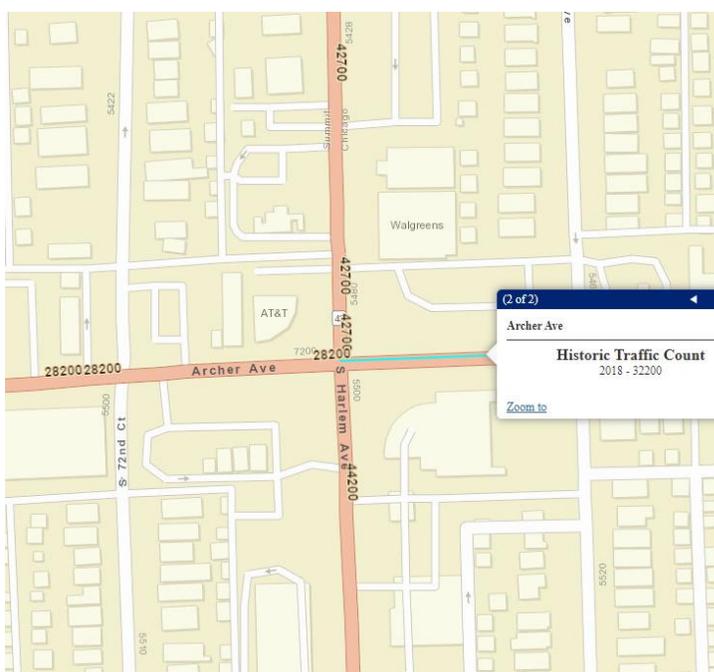
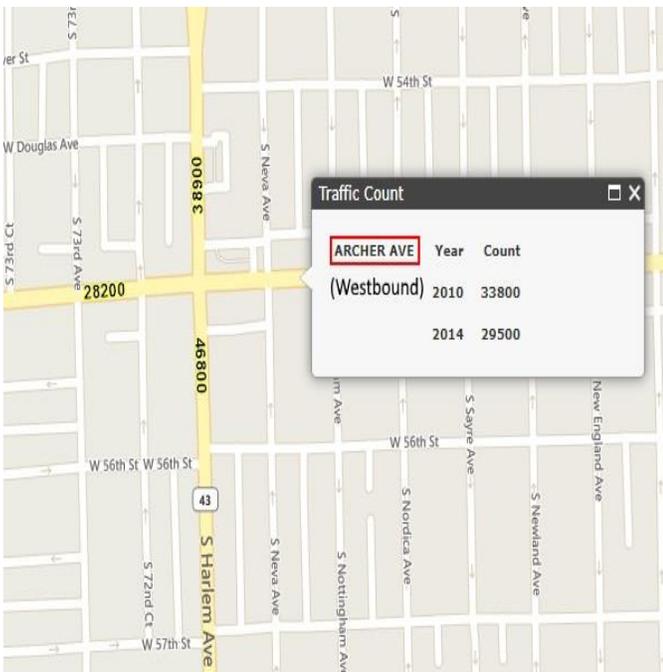
The following page shows the complete ADTC data from 2010-2020 obtained from the IDOT's website.

The traffic numbers below were obtained from the IDOT website during the preparation of the follow up reports in the past and now per the RLR Guideline document published by the IDOT. Only ADTC values were available, peak numbers were not provided.

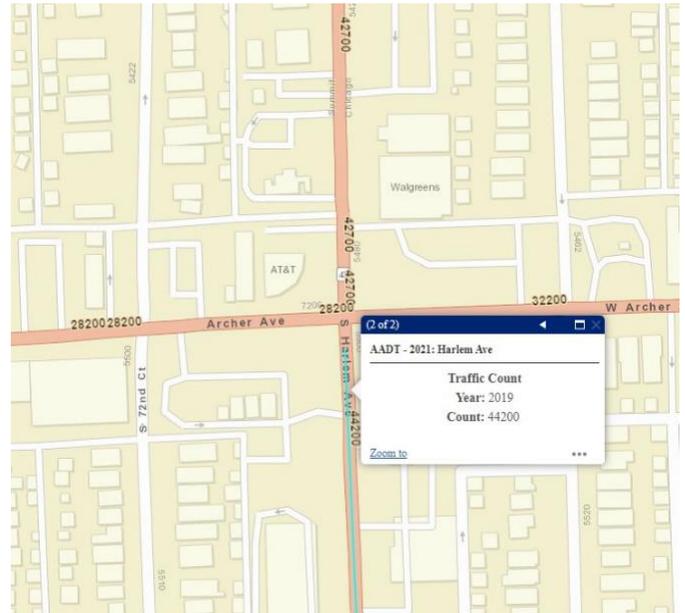
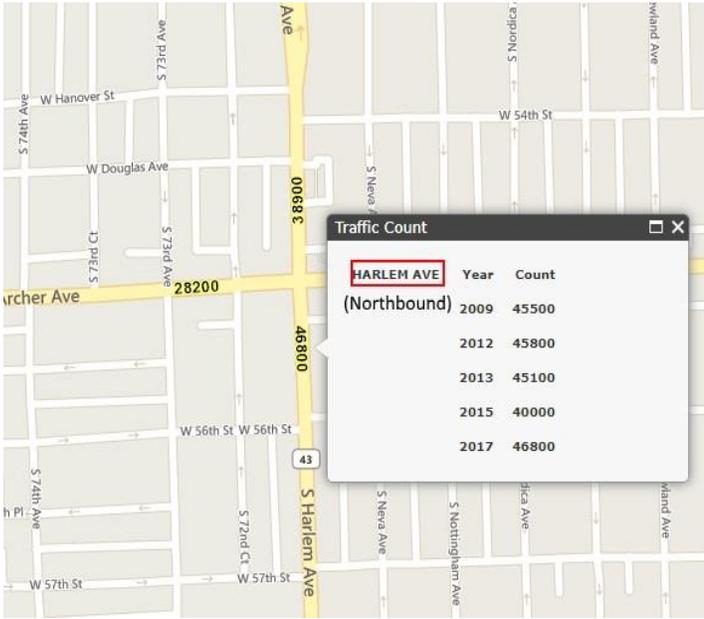
### Eastbound ADTC



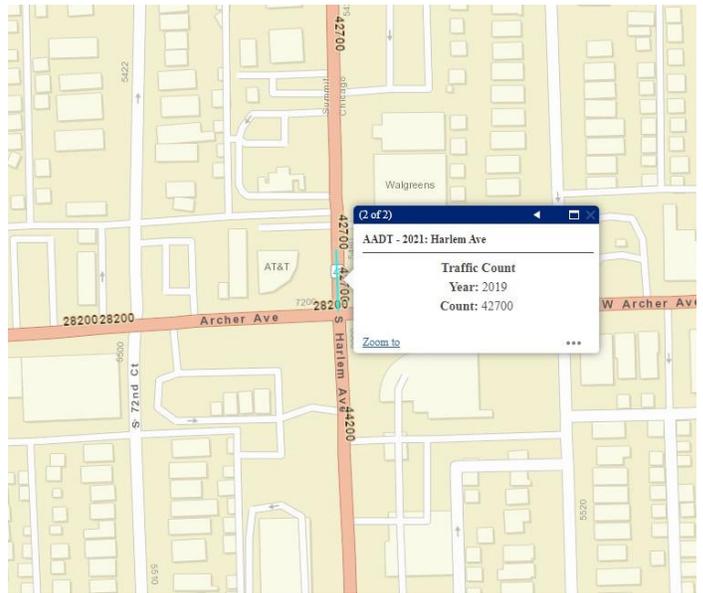
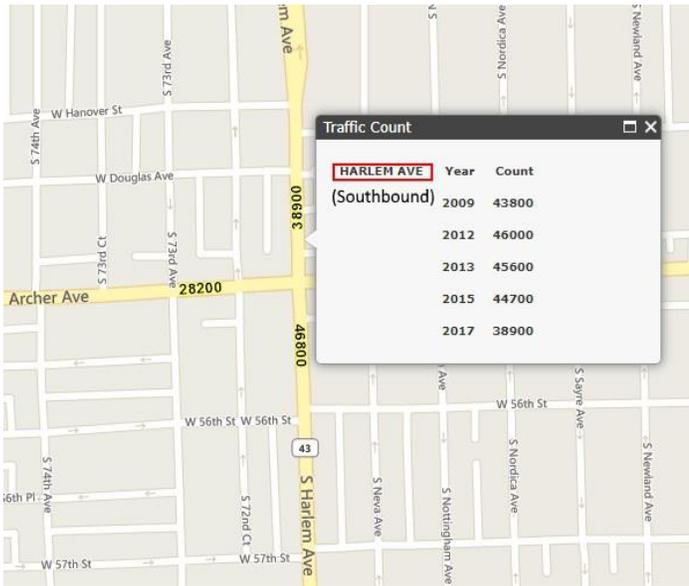
### Westbound ADTC

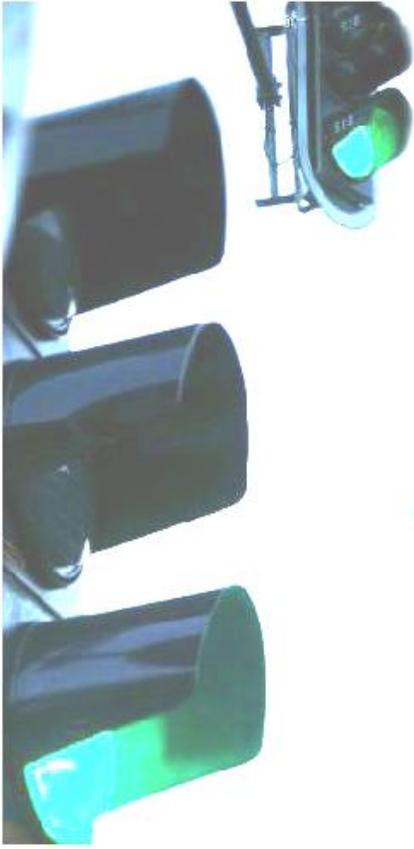


# Northbound ADTC



# Southbound ADTC





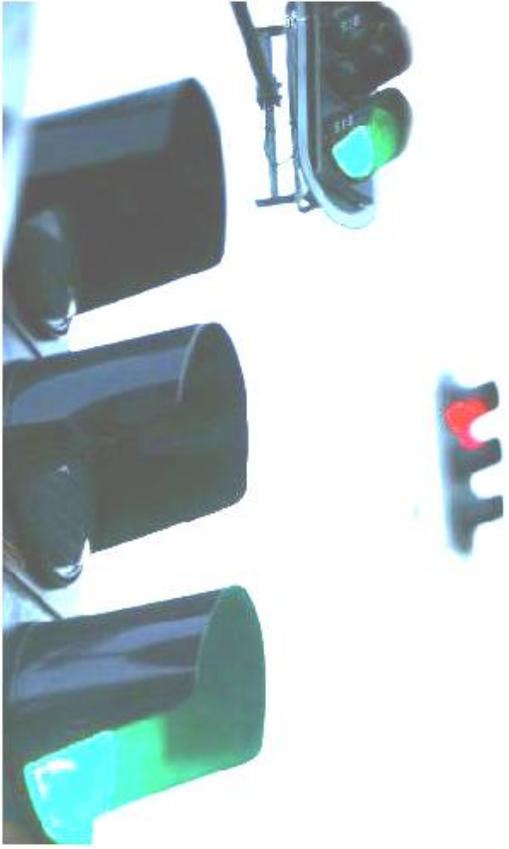
## 4. Summary of Adjudication

The summary of tickets contested “in person” and “by mail” for the **Eastbound** approach of **Archer Ave and Harlem Ave** from 2018 to 2020.

	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>In Person</b>	131	125	134
<b>By Mail</b>	117	118	117

The summary of tickets contested “in person” and “by mail” for the **Southbound** approach of **Archer Ave and Harlem Ave** from 2018 to 2020.

	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>In Person</b>	55	82	73
<b>By Mail</b>	82	114	81



## 5. Report Summary and Recommendation

The **Village of Summit** uses state-of-the-art digital cameras to execute its RLR Enforcement Safety Program. The citation and adjudication process administered by the **Village of Summit** is conducted in a courteous, professional and timely manner and is in compliance with the RLR regulations laid out by the Illinois Department of Transportation District 1 Bureau of Traffic Operations.

From 2010-2012, prior to RLR camera installation, the combined average of ADTC was 152,933. From 2014-2020, post RLR camera installation, the combined average of ADTC was 144,357 - a slight decrease of 5.61%. (See tab 3)

From 2009-2012, prior to RLR camera installation, there were 116 total crashes; this averages out to 29 crashes a year. From 2014-2020, post RLR camera installation, there were 166 total crashes; this averages out to 23.71 crashes per year – a 18.23% reduction of overall crashes in direct comparison with the time period aforementioned. (See tab 2)

Following the installation of the RLR cameras, total crashes have gone down 18.23%, with the slight reduction of 5.61% in the combined average of ADTC.

After analyzing all of the available data, we believe that the RLR cameras currently in operation at the intersection of Archer Ave and Harlem Ave in the **Village of Summit** are making a contribution toward improving traffic safety.

Because enhanced traffic safety is the principal aim of RLR camera enforcement programs, RLRC systems should remain at this intersection as an integral part of a traffic system process that incorporates public education, enforcement and engineering.