

**Roosevelt Rd and Mannheim Rd
<Eastbound and Southbound>**

**Hillside, IL
RLR 3 Year Follow-Up
Evaluation Report**

Reference No: 016-47789
May 2022

JOSEPH M. LUKASZEK
CHIEF OF POLICE
Phone: 708/449-8851
Fax: 708/449-9088



Emergency 9-1-1
Non-Emergency 708/449-6133
Records 708/202-4322
Records Fax: 708/202-4319
Detective/Juvenile 708/449-8850
Administration 708/449-8851

Department of Police
Village of Hillside
425 Hillside Avenue

May 18, 2022

To: 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
Roosevelt Rd and Mannheim Rd (Eastbound and Southbound)
Village of Hillside
Ref#:016-47789

Dear Mr. Gallenbach:

Please find enclosed a copy of the 3 Year RLR Follow-Up Evaluation Report for the intersections of Roosevelt Rd and Mannheim Rd (Eastbound and Southbound), Hillside, 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 708-449-8851, Jlukaszek@hillside-il.org.

Best Regards,

A handwritten signature in dark ink, appearing to read "Joseph Lukaszek", is written over a horizontal line.

On behalf of the Village of Hillside

Joseph Lukaszek
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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2. RLR Crash Data and Analysis
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1. RLR Camera Location, Live Date, System Manufacturer and Contractor

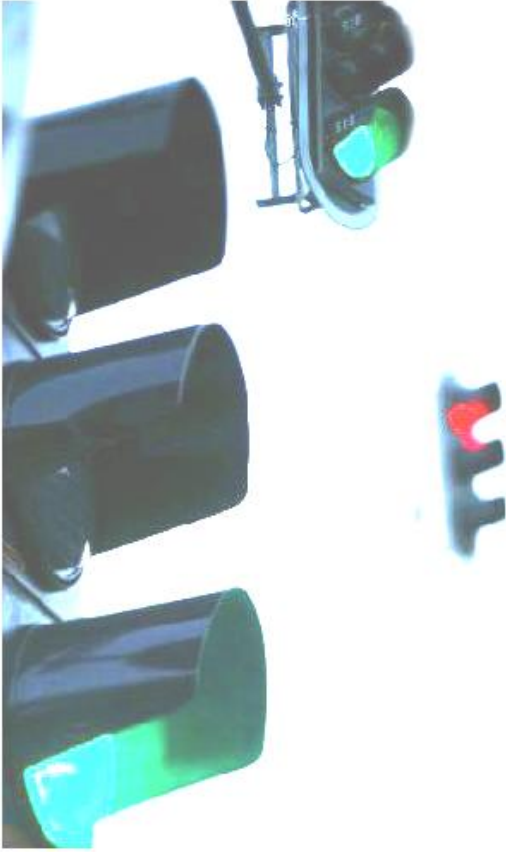
In 2010, the **Village of Hillside** received approval from the Illinois Department of Transportation (IDOT) to install Red Light Running (RLR) cameras on the **Eastbound and Southbound** approaches at the intersection of **Roosevelt Rd and Mannheim Rd**.

- Date on which the cameras went live on the eastbound and southbound approaches: **12/2010**
- Year in which the 1 Year Follow-Up Evaluation Report was submitted to the IDOT: **2012**
- Year in which the 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **2015**
- Year in which the 2nd 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **2019**

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>SafeSpeed, LLC 150 North Wacker Drive Floor 8 Chicago, IL 60606</p> <p>Phone: (877) 237-2331 Fax: (877) 237-2302 Email: info@safespeedllc.com Web: safespeedllc.com</p> <p>Key Contact: Ryan Kim Phone: (312) 924-7248 Email: rkim@safespeedllc.com</p>	<p>Electrical Contractor</p> <p>Meade Electric Company 625 Willowbrook Center Parkway Willowbrook, IL 60527</p> <p>Phone: (708) 588-2500 Fax: (708) 588-2501 Email: info@meadeelectric.com Web: meadeelectric.com</p> <p>Key Contact: Mr. Michael Knutson Phone: (708) 588-2500 Email: mkk@meade100.com</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 **Roosevelt Rd and Mannheim Rd** over a span of 14 years*.

	Angle	Head On	Turning	Rear End	Pedestrian	Sideswipe	Fixed/Other Object	Animal	Total
2007	3	0	2	25	1	3	0	1	35
2008	2	0	5	12	0	0	0	0	19
2009	1	0	8	14	0	2	1	0	26
2010	0	0	2	10	0	0	0	0	12
2011	0	0	1	7	0	0	0	0	8
2012	0	0	2	13	0	0	0	0	15
2013	0	0	3	13	1	0	1	0	18
2014	0	0	1	12	2	0	0	0	15
2015	0	0	3	8	0	1	0	0	12
2016	3	0	1	7	0	2	0	0	13
2017	0	0	4	6	0	0	0	0	10
2018	0	0	2	7	0	0	0	0	9
2019	0	0	2	8	0	2	0	0	12
2020	0	0	3	5	0	2	0	0	10

The data from 2007**-2009 shows the period prior to the installation of the RLR cameras.

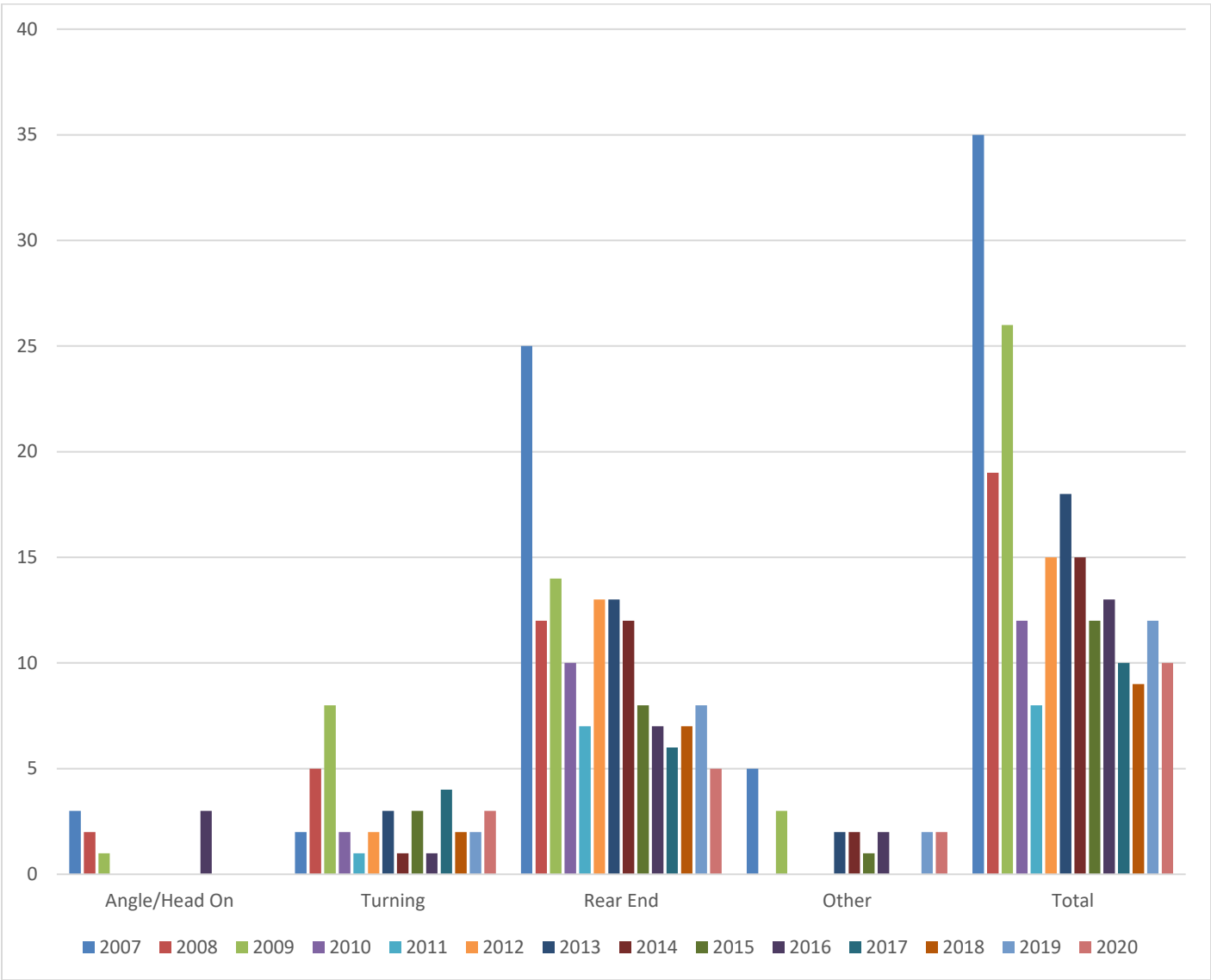
The data from 2010 shows the year in which the cameras were installed.

The data from 2011-2020 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.

** Please note that the law regarding the crash reporting threshold for Property Damage Only crashes was amended effective January 1, 2009, to the following: When all drivers involved in a crash are insured, the amount of damage to the property of any one person that must be reported increased from \$500 to \$1,500. If any driver does not have insurance, the threshold remains at \$500. This change in law precludes comparison of 2009 and later Property Damage Only crashes and Total crashes with such crashes for previous years. The change did NOT affect the reporting of injury or fatal crashes.

The Chart below shows the trend of each crash type from 2007-2020.



	Type Year	Angle/Head On	Turning	Rear End	Other*	Total	Yearly Average
Before Installation	2007	3	2	25	5	35	26.67
	2008	2	5	12	0	19	
	2009	1	8	14	3	26	
	2010	0	2	10	0	12	
After Installation	2011	0	1	7	0	8	12.20
	2012	0	2	13	0	15	
	2013	0	3	13	2	18	
	2014	0	1	12	2	15	
	2015	0	3	8	1	12	
	2016	3	1	7	2	13	
	2017	0	4	6	0	10	
	2018	0	2	7	0	9	
	2019	0	2	8	2	12	
	2020	0	3	5	2	10	

* Other crashes include: Pedestrian, Sideswipe, Animal and Other/Fixed Object.

From 2007-2009, prior to RLR camera installation, there were 80 total crashes; this averages out to 26.67 crashes a year.

From 2011-2020, post RLR camera installation, there were 122 total crashes; this averages out to 12.2 crashes per year - a 54.25% reduction of overall crashes in direct comparison with the time period aforementioned.

The following pages contain crash data summary pages from 2007-2020. The complete crash data can be obtained by contacting the IDOT via DOT.DTS.DataRequests@illinois.gov.



Collision Diagram

1/1/2007 to 12/31/2007

Crash Route: US012 | From MileStation 56.03 to 56.03 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

VUVOŠ ÔÛÆÛPÔÛ	ØØVØŠ ÔÛÆÛPÔÛ	ØRΛÜŸ ÔÛÆÛPÔÛ	ÛÛÛÛÔÛVŸ ÔØØ ØŠÔ ÔÛÆÛPÔÛ	VUVOŠ SŠŠÔÔ	VUVOŠ ØRΛÜÔÔ	A INJURIES	B INJURIES	C INJURIES
35	0	10	25	0	19	6	5	8

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
11-Rear end	25	71.4%	Monday	5	14.3%	Noon	6	17.1%	Passenger	49	68.1%
1-Pedestrian	1	2.9%	Wednesday	6	17.1%	07 AM	4	11.4%	Pickup	3	4.2%
12-Sideswipe same direction	3	8.6%	Saturday	4	11.4%	7 PM	2	5.7%	Sport utility vehicle (SUV)	7	9.7%
15-Angle	3	8.6%	Friday	10	28.6%	9 PM	1	2.9%	Tractor w/ semi-trailer	5	6.9%
10-Turning	2	5.7%	Tuesday	7	20.0%	1 PM	4	11.4%	Truck – single unit	2	2.8%
4-Animal	1	2.9%	Thursday	3	8.6%	3 PM	2	5.7%	Van/mini van	6	8.3%
TOTAL:	35		TOTAL:	35		5 PM	1	2.9%	TOTAL:	72	
						08 AM	4	11.4%			
						09 AM	1	2.9%			
						10 AM	2	5.7%			
						4 PM	2	5.7%			
						2 PM	2	5.7%			
						06 AM	2	5.7%			
						6 PM	1	2.9%			
						8 PM	1	2.9%			
						TOTAL:	35				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Rain	4	11.4%	Daylight	28	80.0%	Wet	6	17.1%	East	16	22.2%
Clear	29	82.9%	Darkness, lighted road	3	8.6%	Dry	27	77.1%	North	19	26.4%



Collision Diagram

1/1/2008 to 12/31/2008

Crash Route: US012 | From MileStation 56.03 to 56.03 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

VUVOŠ ÔÛÆÛPÔÛ	ØØVØŠ ÔÛÆÛPÔÛ	ØRΛÜŸ ÔÛÆÛPÔÛ	ÛÛÛÛÔÛŸ ØØØØ ÔÛÆÛPÔÛ	VUVOŠ SØSØØ	VUVOŠ ØRΛÜØØ	A INJURIES	B INJURIES	C INJURIES
19	0	4	15	0	5	0	3	2

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	5	26.3%	Friday	6	31.6%	3 PM	1	5.3%	Bus up to 15 pass	1	2.6%
11-Rear end	12	63.2%	Saturday	4	21.1%	6 PM	2	10.5%	Passenger	26	66.7%
15-Angle	2	10.5%	Wednesday	3	15.8%	2 PM	3	15.8%	Sport utility vehicle (SUV)	7	17.9%
TOTAL:	19		Tuesday	3	15.8%	07 AM	2	10.5%	Tractor w/ semi-trailer	1	2.6%
			Thursday	2	10.5%	Noon	3	15.8%	Truck – single unit	1	2.6%
			Sunday	1	5.3%	02 AM	1	5.3%	Unknown/NA	1	2.6%
			TOTAL:	19		10 AM	1	5.3%	Van/mini van	2	5.1%
						5 PM	1	5.3%	TOTAL:	39	
						9 PM	1	5.3%			
						06 AM	1	5.3%			
						8 PM	1	5.3%			
						7 PM	1	5.3%			
						11 AM	1	5.3%			
						TOTAL:	19				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	13	68.4%	Daylight	15	78.9%	Dry	12	63.2%	East	13	33.3%
Snow	3	15.8%	Darkness, lighted road	3	15.8%	Snow or slush	3	15.8%	North	2	5.1%
Rain	3	15.8%	Darkness	1	5.3%	Wet	4	21.1%	Northeast	3	7.7%
TOTAL:	19		TOTAL:	19		TOTAL:	19		Northwest	1	2.6%



Collision Diagram

1/1/2009 to 12/31/2009

Crash Route: US012 | From MileStation 55.99 to 55.99 | 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>4</u>	<u>3</u>	<u>19</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>4</u>	<u>6</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	8	30.8%	Monday	2	7.7%	06 AM	1	3.8%	Bus over 15 pass.	1	1.9%
11-Rear end	14	53.8%	Tuesday	10	38.5%	07 AM	1	3.8%	Bus up to 15 pass	2	3.8%
12-Sideswipe same direction	2	7.7%	Wednesday	2	7.7%	08 AM	4	15.4%	Passenger	30	57.7%
15-Angle	1	3.8%	Thursday	1	3.8%	09 AM	4	15.4%	Pickup	1	1.9%
6-Fixed object	1	3.8%	Friday	9	34.6%	10 AM	1	3.8%	Sport utility vehicle (SUV)	6	11.5%
TOTAL:	26		Saturday	1	3.8%	11 AM	3	11.5%	Tractor w/ semi-trailer	1	1.9%
			Sunday	1	3.8%	1 PM	1	3.8%	Tractor w/o semi-trailer	1	1.9%
					2 PM	3	11.5%	Truck – single unit	1	1.9%	
					3 PM	1	3.8%	Unknown/NA	1	1.9%	
					4 PM	3	11.5%	Van/mini van	8	15.4%	
					5 PM	2	7.7%	TOTAL:	52		
					6 PM	1	3.8%				
					11 PM	1	3.8%				
					TOTAL:	26					

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	73.1%	Darkness/Lighted road	2	7.7%	Dry	19	73.1%	East	15	28.8%
Other	1	3.8%	Daylight	23	88.5%	Snow or slush	2	7.7%	North	12	23.1%
Rain	3	11.5%	Dusk	1	3.8%	Wet	5	19.2%	Northeast	1	1.9%
Snow	3	11.5%	TOTAL:	26		TOTAL:	26		Northwest	2	3.8%
TOTAL:	26								South	13	25.0%



Collision Diagram

1/1/2010 to 12/31/2010

Crash Route: US012 | From MileStation 55.99 to 55.99 | 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>12</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>11</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>

<i>Type of Crash</i>	<i>Total</i>	<i>%</i>	<i>Day of Wk</i>	<i>Total</i>	<i>%</i>	<i>Hour of Day</i>	<i>Total</i>	<i>%</i>	<i>Vehicle Type</i>	<i>Total</i>	<i>%</i>
10-Turning	2	16.7%	Monday	2	16.7%	07 AM	1	8.3%	Passenger	15	62.5%
11-Rear end	10	83.3%	Wednesday	3	25.0%	08 AM	1	8.3%	Pickup	2	8.3%
TOTAL:	12		Thursday	2	16.7%	09 AM	2	16.7%	Sport utility vehicle (SUV)	2	8.3%
			Friday	2	16.7%	10 AM	1	8.3%	Truck – single unit	1	4.2%
			Sunday	3	25.0%	Noon	1	8.3%	Van/mini van	4	16.7%
			TOTAL:	12		2 PM	1	8.3%	TOTAL:	24	
						3 PM	1	8.3%			
						6 PM	3	25.0%			
						11 PM	1	8.3%			
						TOTAL:	12				
<i>Weather Cond</i>	<i>Total</i>	<i>%</i>	<i>Light Cond</i>	<i>Total</i>	<i>%</i>	<i>Road Surface</i>	<i>Total</i>	<i>%</i>	<i>DIRP</i>	<i>Total</i>	<i>%</i>
Clear	8	66.7%	Darkness/Lighted road	2	16.7%	Dry	7	58.3%	East	9	37.5%
Rain	2	16.7%	Daylight	10	83.3%	Snow or slush	1	8.3%	North	1	4.2%
Snow	1	8.3%	TOTAL:	12		Unknown	1	8.3%	Northeast	2	8.3%
Unknown	1	8.3%				Wet	3	25.0%	South	8	33.3%
TOTAL:	12					TOTAL:	12		West	4	16.7%
									TOTAL:	24	



Collision Diagram

1/1/2011 to 12/31/2011

Crash Route: US012 | From MileStation 55.99 to 55.99 | 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
8	0	0	3	1	4	0	4	0	3	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	1	12.5%	Monday	1	12.5%	08 AM	1	12.5%	Passenger	15	83.3%
11-Rear end	7	87.5%	Tuesday	5	62.5%	09 AM	1	12.5%	Pickup	1	5.6%
TOTAL:	8		Wednesday	1	12.5%	1 PM	1	12.5%	Sport utility vehicle (SUV)	1	5.6%
			Saturday	1	12.5%	3 PM	1	12.5%	Van/mini van	1	5.6%
			TOTAL:	8		4 PM	2	25.0%	TOTAL:	18	
						6 PM	1	12.5%			
						10 PM	1	12.5%			
						TOTAL:	8				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	5	62.5%	Darkness/Lighted road	1	12.5%	Dry	5	62.5%	East	6	33.3%
Rain	2	25.0%	Daylight	7	87.5%	Snow or slush	1	12.5%	North	5	27.8%
Snow	1	12.5%	TOTAL:	8		Unknown	1	12.5%	South	7	38.9%
TOTAL:	8					Wet	1	12.5%	TOTAL:	18	
						TOTAL:	8				



Collision Diagram

1/1/2012 to 12/31/2012

Crash Route: US012 | From MileStation 55.99 to 55.99 | 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>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>3</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	13	86.7%	Monday	5	33.3%	07 AM	2	13.3%	Passenger	18	58.1%
Turning	2	13.3%	Tuesday	1	6.7%	08 AM	1	6.7%	SUV	9	29.0%
TOTAL:	15		Wednesday	4	26.7%	10 AM	1	6.7%	Tractor With Semi-Trailer	1	3.2%
			Thursday	1	6.7%	Noon	1	6.7%	Van/Mini-Van	3	9.7%
			Saturday	3	20.0%	1 PM	2	13.3%	TOTAL:	31	
			Sunday	1	6.7%	3 PM	2	13.3%			
			TOTAL:	15		4 PM	2	13.3%			
						5 PM	1	6.7%			
						7 PM	2	13.3%			
						10 PM	1	6.7%			
						TOTAL:	15				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	14	93.3%	Darkness	1	6.7%	Dry	13	86.7%	East	7	22.6%
Snow	1	6.7%	Darkness/ Lighted Road	3	20.0%	Snow or Slush	1	6.7%	North	7	22.6%
TOTAL:	15		Daylight	11	73.3%	Wet	1	6.7%	South	9	29.0%
			TOTAL:	15		TOTAL:	15		West	8	25.8%
									TOTAL:	31	



Collision Diagram

1/1/2013 to 12/31/2013

Crash Route: US012 | From MileStation 55.99 to 55.99 | 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>18</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>4</u>	<u>13</u>	<u>0</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>4</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Other Object	1	5.6%	Monday	2	11.1%	01 AM	1	5.6%	Passenger	24	66.7%
Pedestrian	1	5.6%	Tuesday	3	16.7%	06 AM	1	5.6%	SUV	5	13.9%
Rear End	13	72.2%	Wednesday	5	27.8%	08 AM	4	22.2%	Tractor With Semi-Trailer	1	2.8%
Turning	3	16.7%	Thursday	1	5.6%	09 AM	1	5.6%	Truck Single Unit	2	5.6%
TOTAL:	18		Friday	4	22.2%	11 AM	1	5.6%	Van/Mini-Van	4	11.1%
			Saturday	2	11.1%	Noon	1	5.6%	TOTAL:	36	
			Sunday	1	5.6%	1 PM	2	11.1%			
			TOTAL:	18		2 PM	2	11.1%			
					3 PM	2	11.1%				
					6 PM	1	5.6%				
					9 PM	1	5.6%				
					10 PM	1	5.6%				
					TOTAL:	18					

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	16	88.9%	Darkness/ Lighted Road	4	22.2%	Dry	14	77.8%	East	14	38.9%
Rain	1	5.6%	Daylight	14	77.8%	Wet	4	22.2%	North	7	19.4%
Snow	1	5.6%	TOTAL:	18		TOTAL:	18		South	13	36.1%
TOTAL:	18								Southwest	1	2.8%
									West	1	2.8%
									TOTAL:	36	

Collision Diagram**1/1/2014 to 12/31/2014**

Crash Route: US012 | From MileStation 55.99 to 55.99 | 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>0</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>9</u>	<u>0</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>7</u>

<i>Type of Crash</i>	<i>Total</i>	<i>%</i>	<i>Day of Wk</i>	<i>Total</i>	<i>%</i>	<i>Hour of Day</i>	<i>Total</i>	<i>%</i>	<i>Vehicle Type</i>	<i>Total</i>	<i>%</i>
Pedestrian	2	13.3%	Monday	1	6.7%	06 AM	1	6.7%	Passenger	18	64.3%
Rear End	12	80.0%	Tuesday	4	26.7%	07 AM	4	26.7%	Pickup	1	3.6%
Turning	1	6.7%	Wednesday	1	6.7%	08 AM	1	6.7%	SUV	6	21.4%
TOTAL:	15		Thursday	3	20.0%	09 AM	2	13.3%	Unknown	1	3.6%
			Friday	2	13.3%	Noon	1	6.7%	Van/Mini-Van	2	7.1%
			Saturday	1	6.7%	1 PM	1	6.7%	TOTAL:	28	
			Sunday	3	20.0%	2 PM	1	6.7%			
			TOTAL:	15		5 PM	1	6.7%			
						6 PM	2	13.3%			
						9 PM	1	6.7%			
						TOTAL:	15				

<i>Weather Cond</i>	<i>Total</i>	<i>%</i>	<i>Light Cond</i>	<i>Total</i>	<i>%</i>	<i>Road Surface</i>	<i>Total</i>	<i>%</i>	<i>DIRP</i>	<i>Total</i>	<i>%</i>
Clear	10	66.7%	Darkness/ Lighted Road	3	20.0%	Dry	8	53.3%	East	12	42.9%
Cloudy/Overcast	2	13.3%	Dawn	2	13.3%	Snow or Slush	3	20.0%	North	7	25.0%
Snow	3	20.0%	Daylight	10	66.7%	Unknown	2	13.3%	South	9	32.1%
TOTAL:	15		TOTAL:	15		Wet	2	13.3%	TOTAL:	28	
						TOTAL:	15				



Coordinate Collision Diagram Report

1/1/2015 to 12/31/2015

For XCoordinate 2918779.19291442 : YCoordinate 1900973.46781318 | 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>12</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>10</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	8	66.7%	Tuesday	6	50.0%	06 AM	2	16.7%	Motorcycle (Over 150cc)	1	3.8%
Sideswipe Same Direction	1	8.3%	Thursday	3	25.0%	08 AM	1	8.3%	Passenger	13	50.0%
Turning	3	25.0%	Friday	1	8.3%	11 AM	1	8.3%	Pickup	4	15.4%
TOTAL:	12		Saturday	2	16.7%	Noon	1	8.3%	SUV	7	26.9%
			TOTAL:	12		2 PM	2	16.7%	Van/Mini-Van	1	3.8%
						3 PM	1	8.3%	TOTAL:	26	
						4 PM	1	8.3%			
						8 PM	1	8.3%			
						9 PM	1	8.3%			
						11 PM	1	8.3%			
			TOTAL:	12							

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	11	91.7%	Darkness	1	8.3%	Dry	12	100.0%	East	6	23.1%
Cloudy/Overcast	1	8.3%	Darkness, Lighted Road	2	16.7%	TOTAL:	12		South	13	50.0%
TOTAL:	12		Dawn	1	8.3%				Southwest	1	3.8%
			Daylight	8	66.7%				West	6	23.1%
			TOTAL:	12					TOTAL:	26	



Coordinate Collision Diagram Report

1/1/2016 to 12/31/2016

For XCoordinate 2918779.19291442 : YCoordinate 1900973.46781318 | 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>13</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>10</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	23.1%	Monday	1	7.7%	07 AM	1	7.7%	Bus Over 15 Passengers	1	3.6%
Rear End	7	53.8%	Tuesday	3	23.1%	10 AM	2	15.4%	Passenger	18	64.3%
Sideswipe Same Direction	2	15.4%	Wednesday	2	15.4%	1 PM	2	15.4%	Pickup	1	3.6%
Turning	1	7.7%	Friday	3	23.1%	3 PM	2	15.4%	SUV	6	21.4%
TOTAL:	13		Saturday	2	15.4%	4 PM	1	7.7%	Tractor With Semi-Trailer	1	3.6%
			Sunday	2	15.4%	5 PM	1	7.7%	Van/Mini-Van	1	3.6%
			TOTAL:	13		7 PM	2	15.4%	TOTAL:	28	
						8 PM	1	7.7%			
						11 PM	1	7.7%			
						TOTAL:	13				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	10	76.9%	Darkness, Lighted Road	4	30.8%	Dry	8	61.5%	East	7	25.0%
Rain	3	23.1%	Daylight	9	69.2%	Wet	5	38.5%	North	7	25.0%
TOTAL:	13		TOTAL:	13		TOTAL:	13		Northwest	1	3.6%
									South	9	32.1%
									West	4	14.3%
									TOTAL:	28	



Coordinate Collision Diagram Report

1/1/2017 to 12/31/2017

For XCoordinate 2918779.19291442 : YCoordinate 1900973.46781318 | 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>10</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>2</u>	<u>5</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>4</u>	<u>6</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	6	60.0%	Tuesday	1	10.0%	03 AM	1	10.0%	Passenger	17	81.0%
Turning	4	40.0%	Wednesday	4	40.0%	04 AM	1	10.0%	Pickup	2	9.5%
TOTAL:	10		Friday	3	30.0%	2 PM	1	10.0%	SUV	2	9.5%
		Saturday	1	10.0%	4 PM	3	30.0%	TOTAL:	21		
		Sunday	1	10.0%	6 PM	1	10.0%				
		TOTAL:	10	10 PM	3	30.0%					
		TOTAL:	10								
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	6	60.0%	Darkness, Lighted Road	5	50.0%	Dry	7	70.0%	East	10	47.6%
Cloudy/Overcast	1	10.0%	Daylight	4	40.0%	Wet	3	30.0%	North	1	4.8%
Rain	3	30.0%	Dusk	1	10.0%	TOTAL:	10		Northwest	1	4.8%
TOTAL:	10		TOTAL:	10					South	6	28.6%
								West	3	14.3%	
								TOTAL:	21		



Coordinate Collision Diagram Report

1/1/2018 to 12/31/2018

For XCoordinate 2918747.797 : YCoordinate 1900970.589 | 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
9	0	0	0	2	7	0	2	0	0	2

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	7	77.8%	Monday	4	44.4%	09 AM	1	11.1%	Other	1	5.6%
Turning	2	22.2%	Wednesday	1	11.1%	3 PM	2	22.2%	Passenger	11	61.1%
TOTAL:	9		Friday	2	22.2%	4 PM	1	11.1%	SUV	4	22.2%
			Sunday	2	22.2%	5 PM	3	33.3%	Truck Single Unit	1	5.6%
			TOTAL:	9	6 PM	1	11.1%	Van/Mini-Van	1	5.6%	
			8 PM	1	11.1%	TOTAL:	18				
			TOTAL:	9							
<hr/>											
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	77.8%	Darkness, Lighted Road	1	11.1%	Dry	8	88.9%	East	6	33.3%
Cloudy/Overcast	2	22.2%	Daylight	8	88.9%	Wet	1	11.1%	North	2	11.1%
TOTAL:	9		TOTAL:	9		TOTAL:	9		South	6	33.3%
									West	4	22.2%
									TOTAL:	18	



Coordinate Collision Diagram Report

1/1/2019 to 12/31/2019

For XCoordinate 2918747.797 : YCoordinate 1900970.589 | 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>12</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>10</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	8	66.7%	Monday	1	8.3%	09 AM	1	8.3%	Bus 9 to 15 seats	1	4.2%
Sideswipe Same Direction	2	16.7%	Tuesday	2	16.7%	10 AM	1	8.3%	Passenger	12	50.0%
Turning	2	16.7%	Thursday	2	16.7%	11 AM	1	8.3%	Pickup	1	4.2%
TOTAL:	12		Friday	2	16.7%	1 PM	2	16.7%	SUV	6	25.0%
			Saturday	4	33.3%	2 PM	1	8.3%	Truck Single Unit	1	4.2%
			Sunday	1	8.3%	3 PM	1	8.3%	Unknown	1	4.2%
			TOTAL:	12		6 PM	2	16.7%	Van/Mini-Van	2	8.3%
						8 PM	1	8.3%	TOTAL:	24	
						9 PM	1	8.3%			
						10 PM	1	8.3%			
						TOTAL:	12				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	8	66.7%	Darkness, Lighted Road	3	25.0%	Dry	9	75.0%	East	8	33.3%
Cloudy/Overcast	2	16.7%	Daylight	8	66.7%	Wet	3	25.0%	North	2	8.3%
Rain	2	16.7%	Dusk	1	8.3%	TOTAL:	12		South	12	50.0%
TOTAL:	12		TOTAL:	12					Southeast	1	4.2%
									West	1	4.2%
									TOTAL:	24	



Coordinate Collision Diagram Report

1/1/2020 to 12/31/2020

For XCoordinate 2918747.797 : YCoordinate 1900970.589 | 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>10</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	5	50.0%	Monday	2	20.0%	11 AM	1	10.0%	Other	2	10.0%
Sideswipe Same Direction	2	20.0%	Tuesday	3	30.0%	Noon	1	10.0%	Passenger	9	45.0%
Turning	3	30.0%	Wednesday	1	10.0%	2 PM	1	10.0%	Pickup	1	5.0%
TOTAL:	10		Friday	2	20.0%	3 PM	4	40.0%	SUV	5	25.0%
			Saturday	2	20.0%	4 PM	2	20.0%	Truck Single Unit	1	5.0%
			TOTAL:	10		5 PM	1	10.0%	Unknown	2	10.0%
						TOTAL:	10		TOTAL:	20	
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	70.0%	Darkness, Lighted Road	1	10.0%	Dry	7	70.0%	East	2	10.0%
Cloudy/Overcast	1	10.0%	Daylight	8	80.0%	Unknown	2	20.0%	North	3	15.0%
Unknown	2	20.0%	Unknown	1	10.0%	Wet	1	10.0%	Northwest	2	10.0%
TOTAL:	10		TOTAL:	10		TOTAL:	10		South	11	55.0%
									West	2	10.0%
									TOTAL:	20	



3. Traffic Volume

The table below shows a summary of the Average Daily Traffic Count (ADTC) at the intersection of **Roosevelt Rd and Mannheim Rd** over a span of 12 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 2007-2009 shows the period prior to the installation of the RLR cameras.

The data from 2010 shows the year in which the cameras were installed.

The data from 2011-2020 shows the period following the installation.

	Direction Year	Eastbound	Westbound	Northbound	Southbound	Combined	Combined Avg
Before Installation	2007	28000	28000	27400	40300	123,700	118,667
	2008	28000	28000	27400	40300	123,700	
	2009	24,300	24,300	26,000	34,000	108,600	
	2010	24,300	24,300	26,000	34,000	108,600	
After Installation	2011	24,900	24,900	26,400	42,000	118,200	119,020
	2012	24,900	24,900	26,400	42,000	118,200	
	2013	28,400	29,700	28,600	38,800	125,500	
	2014	28,400	27,100	28,600	38,800	122,900	
	2015	28,700	27,100	28,600	38,700	123,100	
	2016	28,700	27,100	28,600	38,700	123,100	
	2017	22,500	27,100	25,800	38,100	113,500	
	2018	22,500	27,100	25,800	38,100	113,500	
	2019	24,700	28,000	29,600	33,800	116,100	
	2020	24,700	28,000	29,600	33,800	116,100	

From 2007-2009, prior to RLR camera installation, the combined average of ADTC was 118,667.

From 2011-2020, post RLR camera installation, the combined average of ADTC was 119,020 - a slight increase of 0.3%.

The following page shows the complete ADTC data from 2007-2020 obtained from the IDOT's website.

The traffic numbers below were obtained from the IDOT website during the preparation of the Justification report and 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.

Roosevelt Rd and Mannheim Rd ADT April 2007

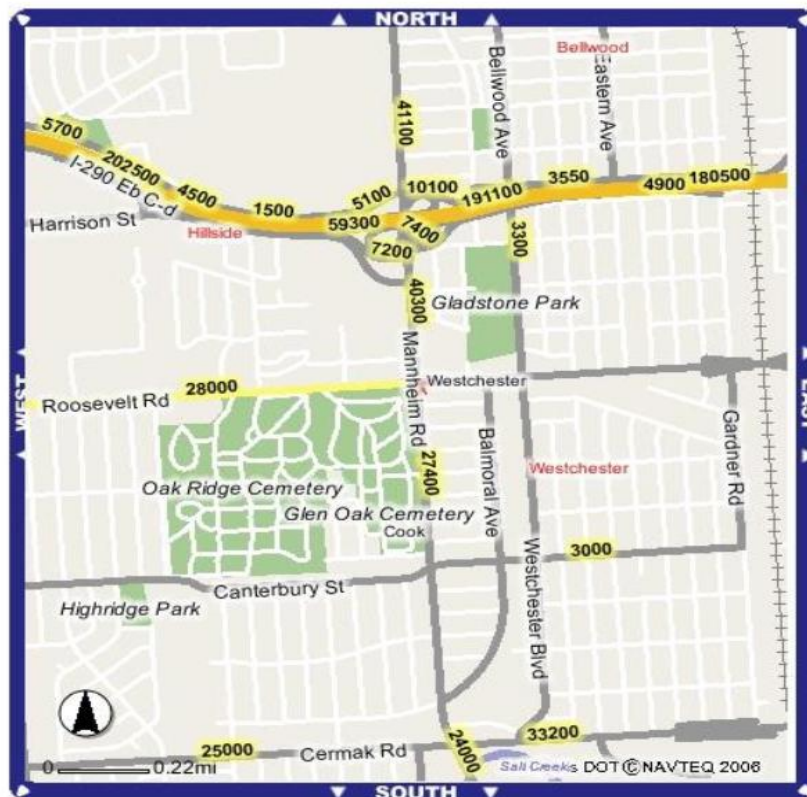
The traffic numbers below were obtained from the IDOT website per the RLR Guideline document published by IDOT. Only ADT values were available, peak numbers were not provided.

Roosevelt Rd ADT

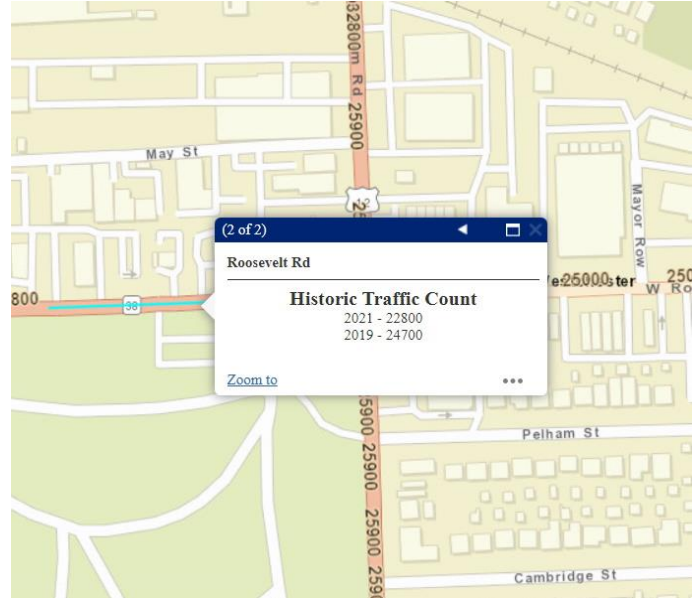
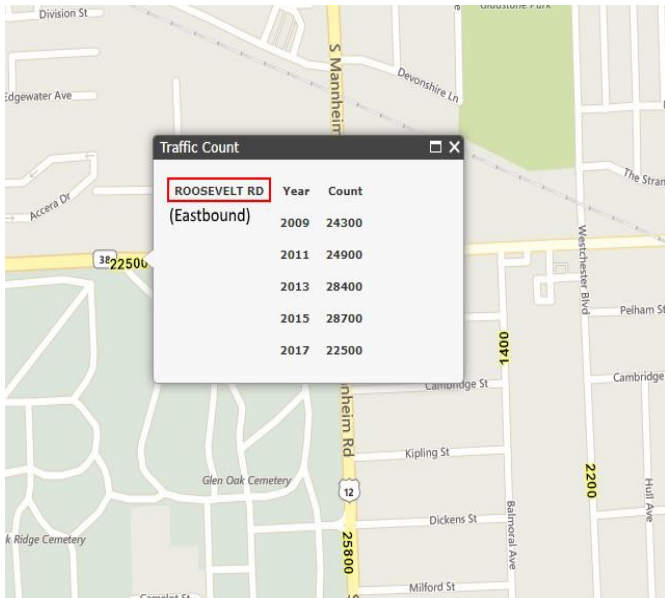
- Eastbound: 28,000
- Westbound: 28,000

Mannheim Rd ADT

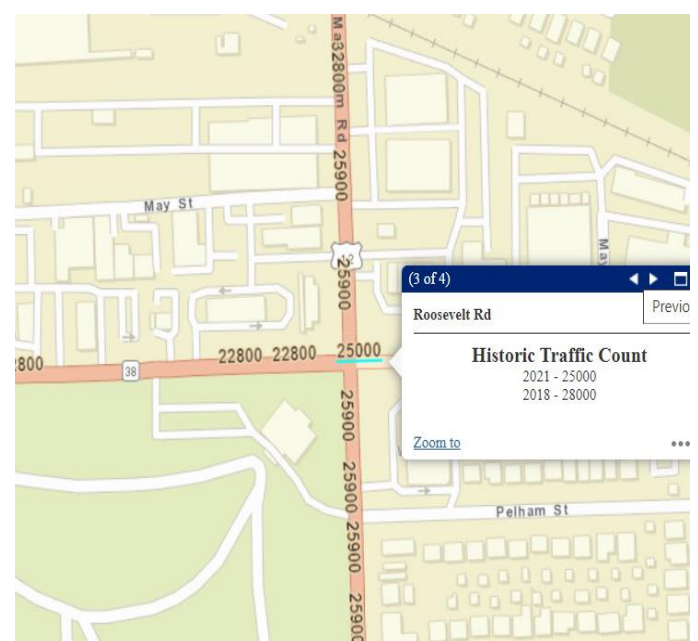
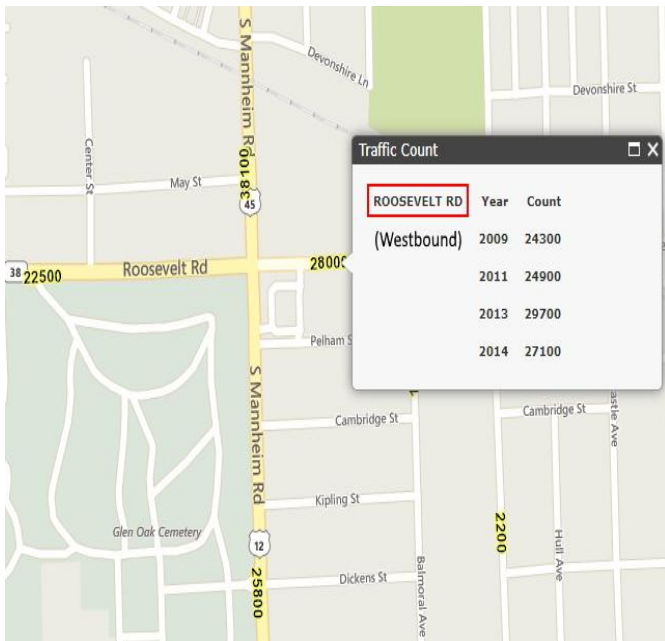
- Northbound: 27,400
- Southbound: 40,300



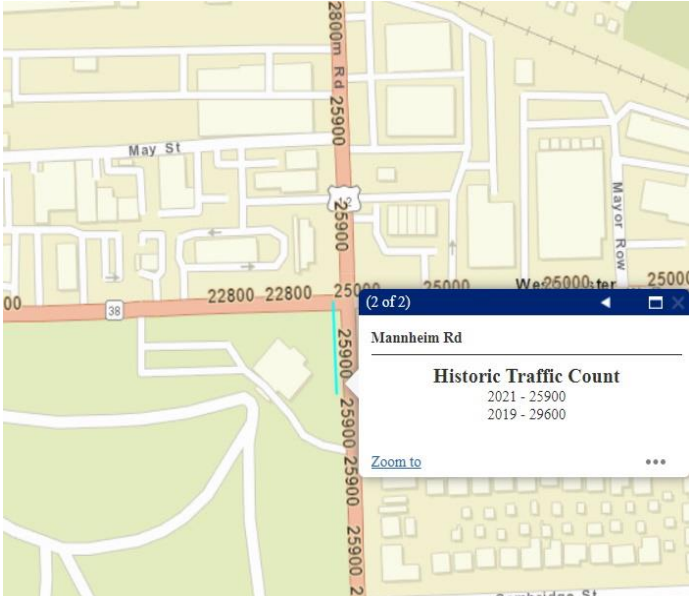
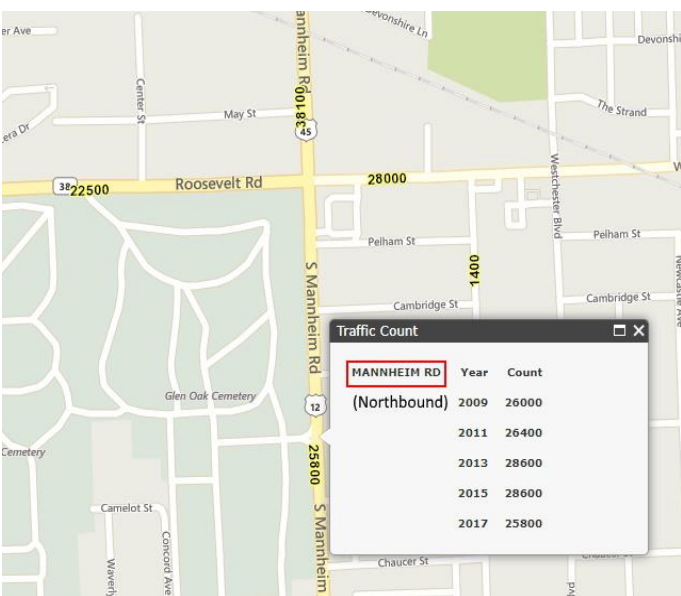
Eastbound ADTC



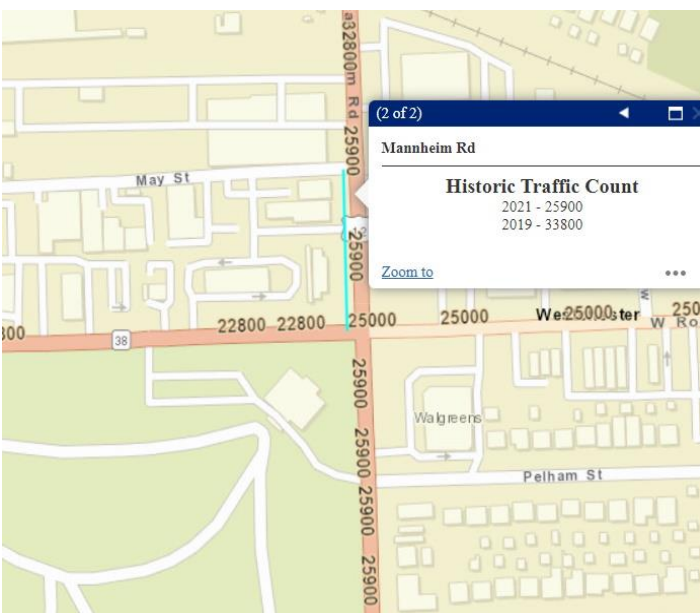
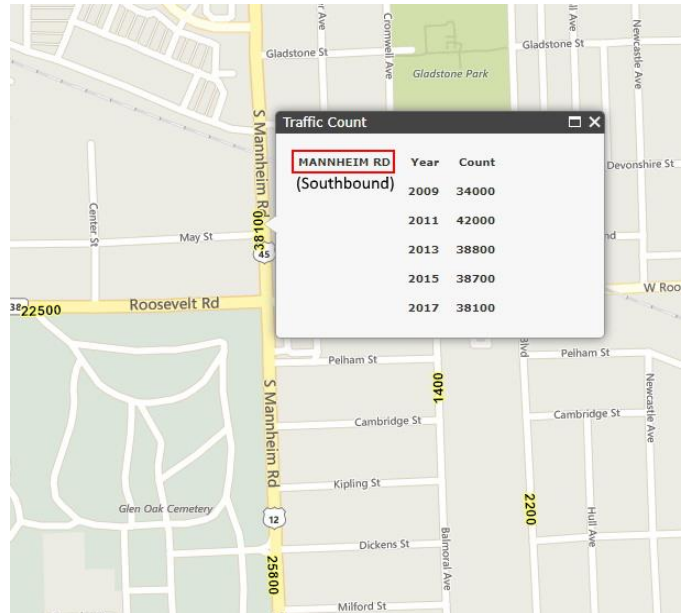
Westbound ADTC



Northbound ADTC



Southbound ADTC





4. Summary of Adjudication

The summary of tickets contested “in person” and “by mail” for the **Eastbound** approach of **Roosevelt Rd and Mannheim Rd** from 2018 to 2020.

	2018	2019	2020
In Person	99	160	54
By Mail	157	159	82

The summary of tickets contested “in person” and “by mail” for the **Southbound** approach of **Roosevelt Rd and Mannheim Rd** from 2018 to 2020.

	2018	2019	2020
In Person	122	214	130
By Mail	227	287	150



5. Report Summary and Recommendation

The **Village of Hillside** uses state-of-the-art digital cameras to execute its RLR Enforcement Safety Program. The citation and adjudication process administered by the **Village of Hillside** 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 2007-2009, prior to RLR camera installation, the combined average of ADTC was 118,667. From 2011-2020, post RLR camera installation, the combined average of ADTC was 119,020 - a slight increase of 0.3%. (See tab 3)

From 2007-2009, prior to RLR camera installation, there were 80 total crashes; this averages out to 26.67 crashes a year. From 2011-2020, post RLR camera installation, there were 122 total crashes; this averages out to 12.2 crashes per year - a 54.25% 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 54.25%, even with the slight increase of 0.3% 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 Roosevelt Rd and Mannheim Rd in the **Village of Hillside** 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.