



December 27, 2011

Illinois Department of Transportation  
Traffic Operations Bureau Chief  
Attn: Steve Travia  
201 W. Center Court  
Schaumburg, IL 60196

Dear Mr. Travia,

The attached report is being submitted to meet a requirement for the Illinois Department of Transportation (IDOT) regarding the implementation of red light cameras. According to the Red Light Running (RLR) policy, our agency is required to prepare an Evaluation Report at the conclusion of one year after the cameras are installed. This report includes the following:

- Intersection locations
- Dates of implementation
- RLR camera system manufacturer and contractor name
- Crash data specific to RLR locations for the three (3) year period prior to and for the period post RLR camera installation
- Analysis of crash data, including a summary of any increase in crash types
- Signal timing and other settings before and after RLR camera installation
- Traffic volumes before and after RLR camera system installation
- Recommendations to further reduce red light violations and severe crashes and to improve the operations of the intersections
- Summary of adjudication experience and results

**Village Hall**

2020 Chestnut Road  
Homewood, IL 60430  
Phone 708-798-3000  
Fax 708-798-4680

**Village Manager's Office**

Phone 708-206-3377  
Fax 708-206-3496

**Community Development  
and Building Department**

Phone 708-206-3385  
Fax 708-206-3947

**Finance Department**

Phone 708-798-3000  
Fax 708-798-4680

**Fire Department**

17950 Dixie Highway  
Homewood, IL 60430  
Phone 708-206-3400  
Fax 708-206-3498

**Police Department**

17950 Dixie Highway  
Homewood, IL 60430  
Phone 708-206-3420  
Fax 708-206-3497

**Public Works Department**

17755 Ashland Avenue  
Homewood, IL 60430  
Phone 708-206-3470  
Fax 708-206-3499

Sincerely,

Lawrence C. Burnson, Chief of Police  
Homewood Police Department



# Homewood Police Department

## Red Light Camera Evaluation Report

### INTERSECTION LOCATIONS AND DATES OF IMPLEMENTATION

| Site   | Warning Mode | Live     |
|--|--------------|----------|
| Northbound Halsted Street at 175th Street    | 07/02/09     | 08/01/09 |
| Southbound Halsted Street at Ridge Road      | 08/04/09     | 08/18/09 |
| Southbound Halsted Street at 183rd Street    | 07/02/09     | 08/01/09 |
| Northbound Governors Highway at 183rd Street | 07/02/09     | 08/01/09 |
| Eastbound 183rd Street at Governors Highway  | 07/02/09     | 08/01/09 |

### RLR CAMERA SYSTEM MANUFACTURER AND CONTRACTOR NAME

- Gatso USA, Inc.  
900 Cummings Center  
Suite 321-U  
Beverly, MA 01915

### CRASH DATA SPECIFIC TO RLR LOCATIONS FOR THE THREE (3) YEAR PERIOD PRIOR TO AND FOR THE PERIOD POST RLR CAMERA INSTALLATION

| 175 <sup>th</sup> & Halsted     | 08/01/06 - 07/31/07 | 08/01/07 - 07/31/08 | 08/01/08 - 07/31/09 | 08/01/09 - 07/31/10 | 08/01/10 - 07/31/11 |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Angle                           | 4                   | 2                   | 3                   | 2                   | 4                   |
| Fixed Object                    | -                   | 1                   | 1                   | 3                   | -                   |
| Head On                         | 1                   | -                   | -                   | -                   | -                   |
| Other Object                    | 1                   | -                   | -                   | -                   | -                   |
| Pedestrian                      | -                   | 1                   | -                   | 1                   | 1                   |
| Rear End                        | 6                   | 7                   | 5                   | 11                  | 11                  |
| Side Swipe - Opposite Direction | -                   | 1                   | -                   | -                   | -                   |
| Side Swipe - Same Direction     | 5                   | 3                   | 1                   | 2                   | 1                   |
| Turning                         | 2                   | 3                   | 2                   | 6                   | 5                   |
| <b>TOTAL</b>                    | <b>19</b>           | <b>18</b>           | <b>12</b>           | <b>25</b>           | <b>22</b>           |

| Ridge & Halsted             | 08/01/06 - 07/31/07 | 08/01/07 - 07/31/08 | 08/01/08 - 07/31/09 | 08/01/09 - 07/31/10 | 08/01/10 - 07/31/11 |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Angle                       | 6                   | 4                   | 1                   | 1                   | 2                   |
| Animal                      | -                   | -                   | -                   | 1                   | -                   |
| Head On                     | -                   | 1                   | -                   | -                   | 1                   |
| Other Non Collision         | 1                   | -                   | -                   | -                   | -                   |
| Parked Motor Vehicle        | -                   | 1                   | -                   | -                   | -                   |
| Pedestrian                  | 1                   | 1                   | -                   | 1                   | -                   |
| Rear End                    | 13                  | 11                  | 15                  | 17                  | 14                  |
| Side Swipe - Same Direction | 4                   | 1                   | 4                   | -                   | 1                   |
| Turning                     | 6                   | 6                   | 4                   | 3                   | 2                   |
| <b>TOTAL</b>                | <b>31</b>           | <b>25</b>           | <b>24</b>           | <b>23</b>           | <b>20</b>           |

| 183 <sup>rd</sup> & Halsted | 08/01/06 - 07/31/07 | 08/01/07 - 07/31/08 | 08/01/08 - 07/31/09 | 08/01/09 - 07/31/10 | 08/01/10 - 07/31/11 |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Angle                       | 7                   | 2                   | 3                   | 1                   | -                   |
| Fixed Object                | -                   | -                   | -                   | -                   | 2                   |
| Head On                     | -                   | 1                   | -                   | 1                   | -                   |
| Pedestrian                  | -                   | -                   | 1                   | 1                   | -                   |
| Rear End                    | 12                  | 10                  | 4                   | 6                   | 7                   |
| Side Swipe - Same Direction | 2                   | -                   | 1                   | 4                   | 1                   |
| Turning                     | 1                   | 2                   | 1                   | 3                   | 1                   |
| <b>TOTAL</b>                | <b>22</b>           | <b>15</b>           | <b>10</b>           | <b>16</b>           | <b>11</b>           |

\* The Village of Homewood only has jurisdiction over the southbound approach to this intersection. The other 3 approaches are under the jurisdiction of the Village of Glenwood

| 183 <sup>rd</sup> & Governors   | 08/01/06 - 07/31/07 | 08/01/07 - 07/31/08 | 08/01/08 - 07/31/09 | 08/01/09 - 07/31/10 | 08/01/10 - 07/31/11 |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Angle                           | 10                  | 3                   | 2                   | 2                   | 3                   |
| Fixed Object                    | 1                   | -                   | 1                   | -                   | -                   |
| Head On                         | -                   | 1                   | -                   | -                   | 1                   |
| Other Object                    | -                   | -                   | -                   | 1                   | -                   |
| Pedalcyclist                    | -                   | -                   | 1                   | -                   | -                   |
| Rear End                        | 17                  | 9                   | 10                  | 6                   | 14                  |
| Side Swipe - Opposite Direction | -                   | -                   | -                   | 1                   | -                   |
| Side Swipe - Same Direction     | 2                   | 2                   | -                   | 2                   | -                   |
| Turning                         | 2                   | 4                   | 1                   | 3                   | 1                   |
| <b>TOTAL</b>                    | <b>32</b>           | <b>19</b>           | <b>15</b>           | <b>15</b>           | <b>19</b>           |

#### **ANALYSIS OF CRASH DATA, INCLUDING A SUMMARY OF ANY INCREASE IN CRASH TYPES**

- Since none of the intersections are totally signalized for red light violations the analysis can only be looked at with what might occur if they were signalized. If one were to study the intersection of 183rd & Governors, where two directions have red light cameras, you see a 41% decrease in accidents since 2007. This has been one of our most dangerous accident locations so it would seem that the program is working well at that location. We have also seen a decline over the 2007 numbers at the 183rd & Halsted and Ridge & Halsted intersections.

#### **SIGNAL TIMING AND OTHER SETTINGS BEFORE AND AFTER RLR CAMERA INSTALLATION**

- There were no timing changes made at any of the locations.

#### **TRAFFIC VOLUMES BEFORE AND AFTER RLR CAMERA SYSTEM INSTALLATION**

- The Illinois Department of Transportation only tracks the average daily traffic counts for state roadways every other year. County roads collect counts approximately every four years; therefore the following statistics will be from 2007 and 2009. There is no data available for 2008 and 2010.

| 175 <sup>th</sup> & Halsted | 2007          | 2009          | 2011          |
|-----------------------------|---------------|---------------|---------------|
| Northbound Halsted          | 35,200        | 33,200        | 33,200        |
| Southbound Halsted          | 35,200        | 33,200        | 33,200        |
| Eastbound 175 <sup>th</sup> | not available | not available | not available |
| Westbound 175 <sup>th</sup> | not available | not available | not available |

| Ridge & Halsted    | 2007          | 2009          | 2011          |
|--------------------|---------------|---------------|---------------|
| Northbound Halsted | 33,600        | 29,800        | 29,800        |
| Southbound Halsted | 35,200        | 33,200        | 33,200        |
| Eastbound Ridge    | 17,000        | 17,000        | 9,700         |
| Westbound Ridge    | not available | not available | not available |

| 183 <sup>rd</sup> & Halsted | 2007          | 2009          | 2011          |
|-----------------------------|---------------|---------------|---------------|
| Northbound Halsted          | 33,600        | 29,800        | 29,800        |
| Southbound Halsted          | 33,600        | 33,200        | 33,200        |
| Eastbound 183 <sup>rd</sup> | 16,500        | 16,500        | 18,700        |
| Westbound 183 <sup>rd</sup> | not available | not available | not available |

| 183 <sup>rd</sup> & Governors | 2007   | 2009   | 2011   |
|-------------------------------|--------|--------|--------|
| Northbound Governors          | 10,800 | 10,800 | 12,200 |
| Southbound Governors          | 9,100  | 9,100  | 8,700  |
| Eastbound 183 <sup>rd</sup>   | 16,500 | 16,500 | 18,700 |
| Westbound 183 <sup>rd</sup>   | 16,500 | 16,500 | 18,700 |

**RECOMMENDATIONS TO FURTHER REDUCE RED LIGHT VIOLATIONS AND SEVERE CRASHES AND TO IMPROVE THE OPERATIONS OF THE INTERSECTIONS**

- All of the intersections have been upgraded with new LED lights and 12 inch signal heads. It is our belief that with the new signalization and the public's knowledge of the existence of red light enforcement at these key locations that we will continue to see a reduction in severe crashes in the Village of Homewood.

**SUMMARY OF ADJUDICATION EXPERIENCE AND RESULTS**

- The following is a summary of the adjudication process from August 2010 through July 2011. The table reflects all RLR locations, the amount of fines paid by violators, fees paid to GATSO for their services and the outcome of the violations.

| Month / Year | 175th & Halsted | 183rd & Halsted | Ridge & Halsted | E/B 183rd & Governors | N/B Governors & 183rd | Total Citations Issued | Fines Paid        | Paid to Gatso    | Hearings  | Contested by Mail | Total Contested | Liabe     | Not Liabe | Failed to Appear |
|--------------|-----------------|-----------------|-----------------|-----------------------|-----------------------|------------------------|-------------------|------------------|-----------|-------------------|-----------------|-----------|-----------|------------------|
| Aug 2010     | 41              | 25              | 60              | 36                    | 26                    | 188                    | \$ 15,200         | \$ 5,640         | 10        | 1                 | 11              | 5         | 1         | 5                |
| Sep 2010     | 15              | 20              | 47              | 29                    | 15                    | 126                    | \$ 12,500         | \$ 2,400         | 8         | 3                 | 11              | 8         | -         | 3                |
| Oct 2010     | 13              | 13              | 53              | 17                    | 17                    | 113                    | \$ 8,100          | \$ 3,390         | 7         | 1                 | 8               | 4         | 1         | 3                |
| Nov 2010     | 15              | 22              | 59              | 40                    | 16                    | 152                    | \$ 9,400          | \$ 4,560         | 4         | 3                 | 7               | 6         | -         | 1                |
| Dec 2010     | 12              | 21              | 37              | 37                    | 14                    | 121                    | \$ 9,100          | \$ 3,630         | 7         | -                 | 7               | 3         | 2         | 2                |
| Jan 2011     | 15              | 27              | 40              | 30                    | 6                     | 118                    | \$ 7,300          | \$ 3,540         | 5         | 1                 | 6               | 4         | -         | 2                |
| Feb 2011     | 8               | 22              | 27              | 28                    | 8                     | 93                     | \$ 7,100          | \$ 2,790         | 3         | 1                 | 4               | 3         | -         | 1                |
| Mar 2011     | 14              | 24              | 30              | 38                    | 5                     | 111                    | \$ 7,200          | \$ 3,330         | 5         | 1                 | 6               | 3         | -         | 3                |
| Apr 2011     | 10              | 10              | 32              | 15                    | 9                     | 76                     | \$ 5,500          | \$ 2,280         | 6         | 3                 | 9               | 6         | -         | 3                |
| May 2011     | 13              | 11              | 35              | 20                    | 16                    | 95                     | \$ 8,200          | \$ 2,850         | 3         | 2                 | 5               | 4         | -         | 1                |
| Jun 2011     | 4               | 18              | 36              | 30                    | 25                    | 113                    | \$ 4,900          | \$ 3,390         | 1         | -                 | 1               | -         | -         | 1                |
| Jul 2011     | 8               | 19              | 59              | 24                    | 23                    | 133                    | \$ 6,800          | \$ 3,990         | 1         | -                 | 1               | 1         | -         | -                |
| <b>TOTAL</b> | <b>168</b>      | <b>232</b>      | <b>515</b>      | <b>344</b>            | <b>180</b>            | <b>1,439</b>           | <b>\$ 101,300</b> | <b>\$ 41,790</b> | <b>60</b> | <b>16</b>         | <b>76</b>       | <b>47</b> | <b>4</b>  | <b>25</b>        |