



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 th & 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 |
|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| Angle | 4 | 2 | 3 | 2 |
| Fixed Object | | 1 | 1 | 3 |
| Head On | 1 | | | |
| Other Object | 1 | | | |
| Pedestrian | | 1 | | 1 |
| Rear End | 6 | 7 | 5 | 11 |
| Side Swipe - Opposite Direction | | 1 | | |
| Side Swipe - Same Direction | 5 | 3 | 1 | 2 |
| Turning | 2 | 3 | 2 | 6 |
| TOTAL | 19 | 18 | 12 | 25 |

| 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 |
|-----------------------------|------------------------|------------------------|------------------------|------------------------|
| Angle | 6 | 4 | 1 | 1 |
| Animal | | | | 1 |
| Head On | | 1 | | |
| Other Non Collision | 1 | | | |
| Parked Motor Vehicle | | 1 | | |
| Pedestrian | 1 | 1 | | 1 |
| Rear End | 13 | 11 | 15 | 17 |
| Side Swipe - Same Direction | 4 | 1 | 4 | |
| Turning | 6 | 6 | 4 | 3 |
| TOTAL | 31 | 25 | 24 | 23 |

| 183 rd & 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 |
|-----------------------------|------------------------|------------------------|------------------------|------------------------|
| Angle | 7 | 2 | 3 | 1 |
| Head On | | 1 | | 1 |
| Pedestrian | | | 1 | 1 |
| Rear End | 12 | 10 | 4 | 6 |
| Side Swipe - Same Direction | 2 | | 1 | 4 |
| Turning | 1 | 2 | 1 | 3 |
| TOTAL | 22 | 15 | 10 | 16 |

* 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 rd & 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 |
|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| Angle | 10 | 3 | 2 | 2 |
| Fixed Object | 1 | | 1 | |
| Head On | | 1 | | |
| Other Object | | | | 1 |
| Pedalcyclist | | | 1 | |
| Rear End | 17 | 9 | 10 | 6 |
| Side Swipe - Opposite Direction | | | | 1 |
| Side Swipe - Same Direction | 2 | 2 | | 2 |
| Turning | 2 | 4 | 1 | 3 |
| TOTAL | 32 | 19 | 15 | 15 |

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 over a 50% 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 th & Halsted | 2007 | 2009 |
|-----------------------------|---------------|---------------|
| Northbound Halsted | 35,200 | 33,200 |
| Southbound Halsted | 35,200 | 33,200 |
| Eastbound 175 th | not available | not available |
| Westbound 175 th | not available | not available |

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

| 183 rd & Halsted | 2007 | 2009 |
|-----------------------------|---------------|---------------|
| Northbound Halsted | 33,600 | 29,800 |
| Southbound Halsted | 33,600 | 33,200 |
| Eastbound 183 rd | 16,500 | 16,500 |
| Westbound 183 rd | not available | not available |

| 183 rd & Governors | 2007 | 2009 |
|-------------------------------|--------|--------|
| Northbound Governors | 10,800 | 10,800 |
| Southbound Governors | 9,100 | 9,100 |
| Eastbound 183 rd | 16,500 | 16,500 |
| Westbound 183 rd | 16,500 | 16,500 |

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 2009 through July 2010. 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 | Liable | Not Liable | Failed to Appear |
|--------------|-----------------|-----------------|-----------------|-----------------------|-----------------------|------------------------|-------------------|------------------|------------|-------------------|-----------------|------------|------------|------------------|
| Aug 2009 | 62 | 60 | 38 | 71 | 38 | 269 | \$ 3,900 | \$ - | - | - | - | - | - | - |
| Sep 2009 | 73 | 64 | 107 | 62 | 83 | 389 | \$ 16,700 | \$ 10,530 | - | - | - | - | - | - |
| Oct 2009 | 62 | 58 | 112 | 49 | 29 | 310 | \$ 23,900 | \$ 9,000 | 25 | 1 | 26 | 14 | 1 | 11 |
| Nov 2009 | 38 | 57 | 111 | 39 | 28 | 273 | \$ 19,020 | \$ 8,580 | 29 | 6 | 35 | 25 | 4 | 6 |
| Dec 2009 | 56 | 54 | 90 | 73 | 27 | 300 | \$ 18,800 | \$ 8,790 | 12 | 4 | 16 | 7 | 2 | 7 |
| Jan 2010 | 57 | 45 | 56 | 56 | 21 | 235 | \$ 18,600 | \$ 6,930 | 14 | 6 | 20 | 11 | 5 | 4 |
| Feb 2010 | 36 | 45 | 6 | 44 | 16 | 147 | \$ 13,800 | \$ 3,780 | 24 | 3 | 27 | 19 | 3 | 5 |
| Mar 2010 | 35 | 40 | 82 | 40 | 25 | 222 | \$ 13,200 | \$ 6,120 | 17 | 5 | 22 | 14 | 1 | 7 |
| Apr 2010 | 75 | 95 | 157 | 83 | 45 | 455 | \$ 14,100 | \$ 7,410 | 10 | 6 | 16 | 9 | 3 | 4 |
| May 2010 | 71 | 82 | 175 | 76 | 44 | 448 | \$ 14,500 | \$ 5,670 | 12 | 4 | 16 | 10 | 2 | 4 |
| Jun 2010 | 84 | 57 | 184 | 61 | 50 | 436 | \$ 17,840 | \$ 5,730 | 5 | - | 5 | 3 | 1 | 1 |
| Jul 2010 | 46 | 13 | 86 | 63 | 49 | 257 | \$ 13,100 | \$ 6,540 | 9 | 1 | 10 | 4 | 1 | 5 |
| TOTAL | 695 | 670 | 1,204 | 717 | 455 | 3,741 | \$ 187,460 | \$ 79,080 | 157 | 36 | 193 | 116 | 23 | 54 |