



WASHINGTON STREET & HUNT CLUB ROAD

RED LIGHT PHOTO ENFORCEMENT 3 YEAR FOLLOW-UP REPORT

September 2023

Overview

The Village of Gurnee is required to submit a Follow-Up Evaluation report to the Lake County Division of Transportation for the intersection of Washington Street and Hunt Club Road one year after the installation of a Red Light Running Camera System (RLR) and every three years thereafter.

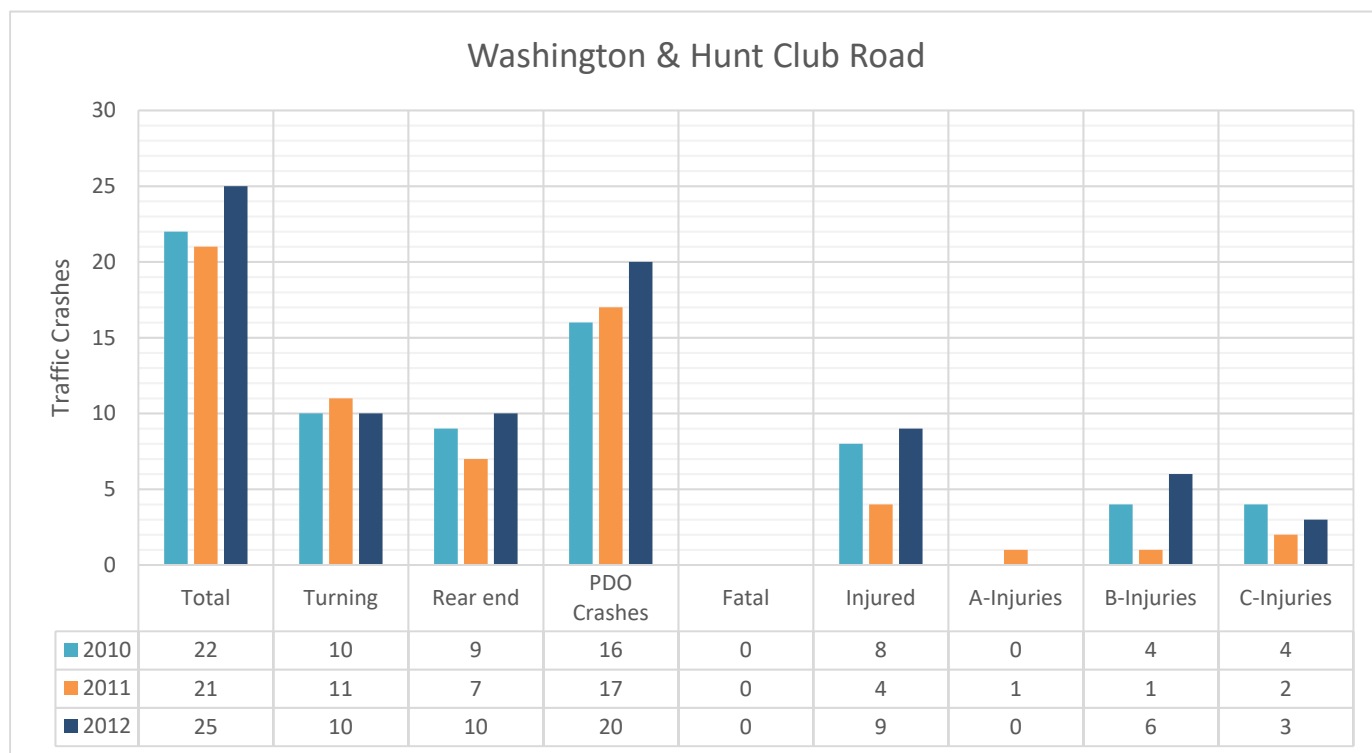
On December 3, 2007, the Village of Gurnee entered into agreement with Redflex Traffic Systems Inc. to install Red Light Running Camera Systems at several intersections throughout the Village. Once the testing and warning phase was completed the RLR Systems went fully operational with citations being issued on:

Washington Street and Hunt Club Road - eastbound 08/12/2012
Washington Street and Hunt Club Road - westbound 02/17/2018

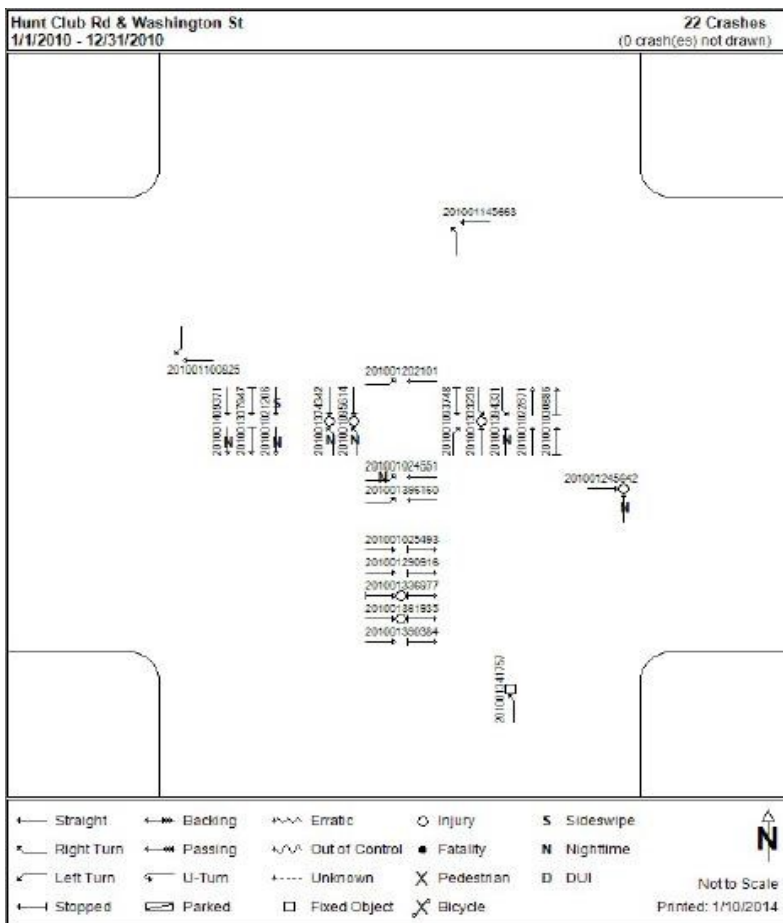
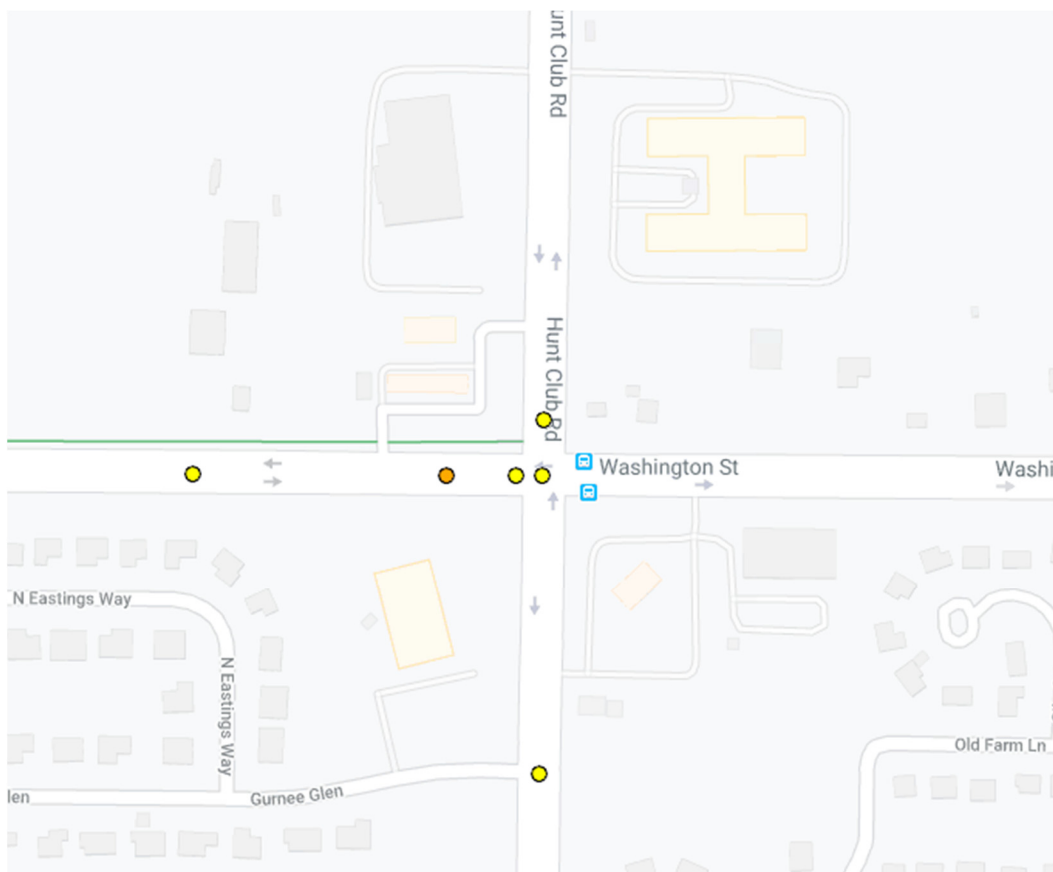
Crash Data

The crash data specific to the RLR location(s) for the 3-year period (Exhibit #1) prior to and for the period post (Exhibit #2) RLR installation. The crash data shall include yearly collision diagrams of the intersection(s).

Exhibit 1



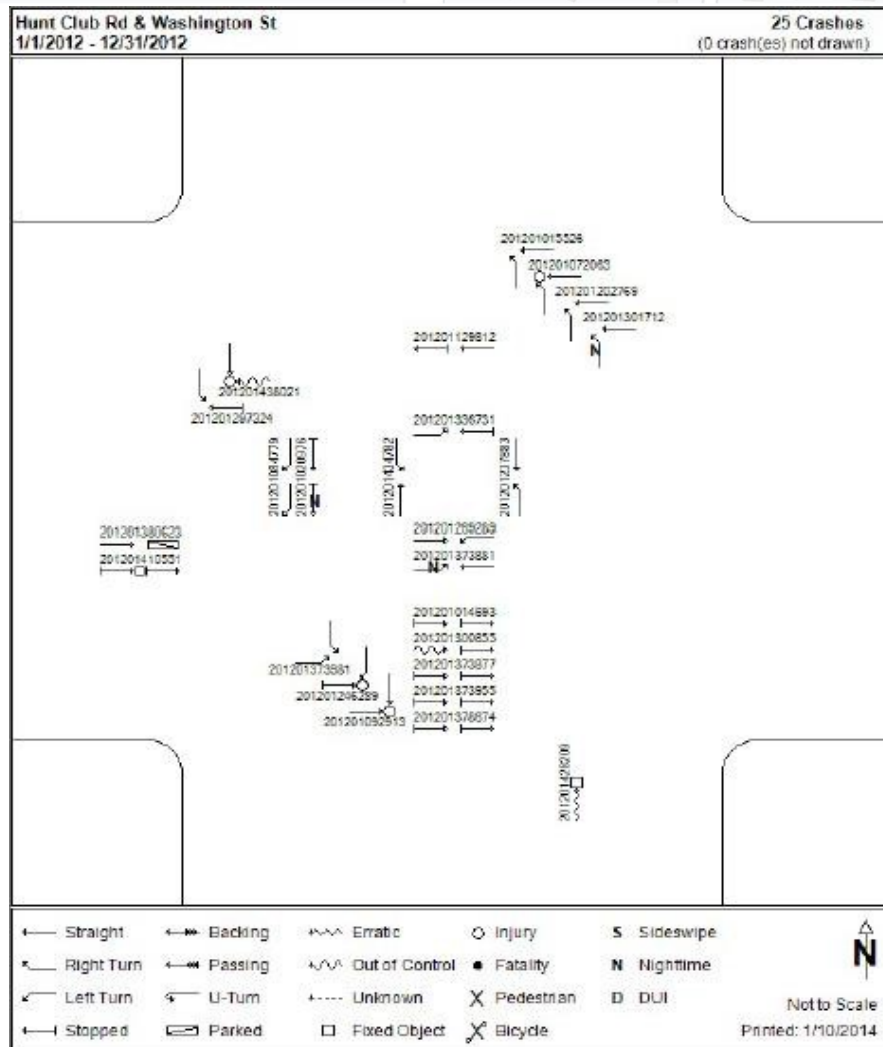
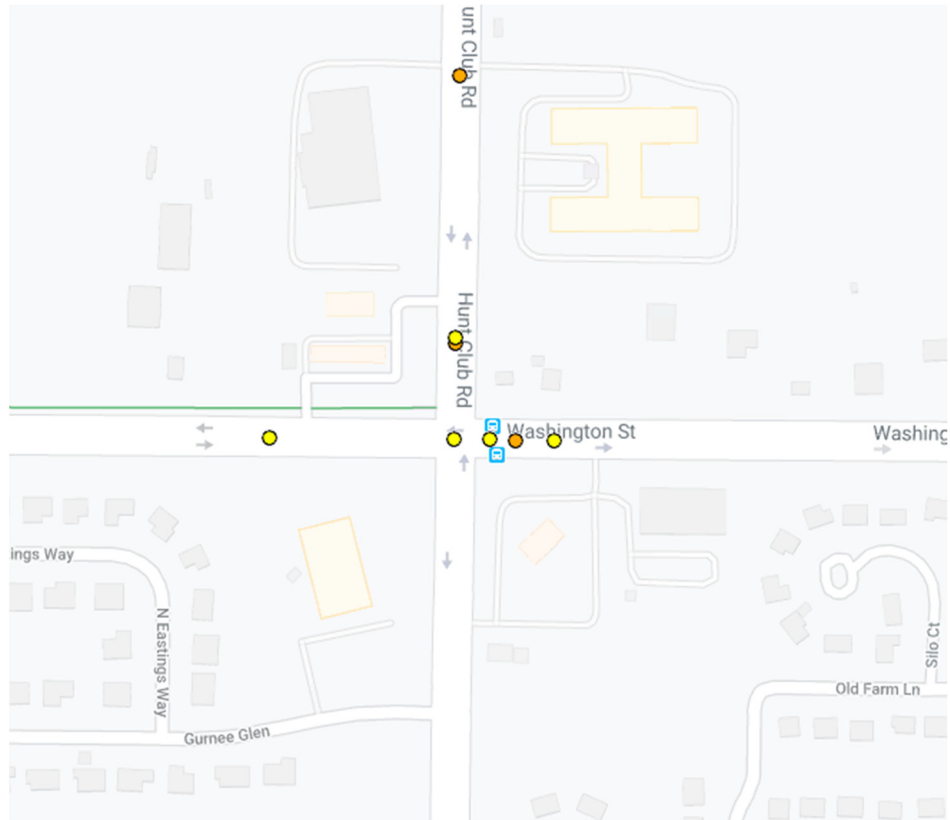
2010 Traffic Crash Map & Collision Diagram (Data located on Exhibit #1)
Washington Street & Hunt Club Road



This map shows the intersection of Washington St and Hunt Club Rd. The Washington St station is located on Washington St, near the intersection with Hunt Club Rd. The map also shows the location of the Washington St station, which is located on Washington St, near the intersection with Hunt Club Rd. The map includes labels for Washington St, Hunt Club Rd, and the Washington St station.



2012 Traffic Crash Map & Collision Diagram (Data located on Exhibit #1)
Washington Street & Hunt Club Road



2010-2012 Traffic Crash Map (Data located on Exhibit #1) Washington Street & Hunt Club Road

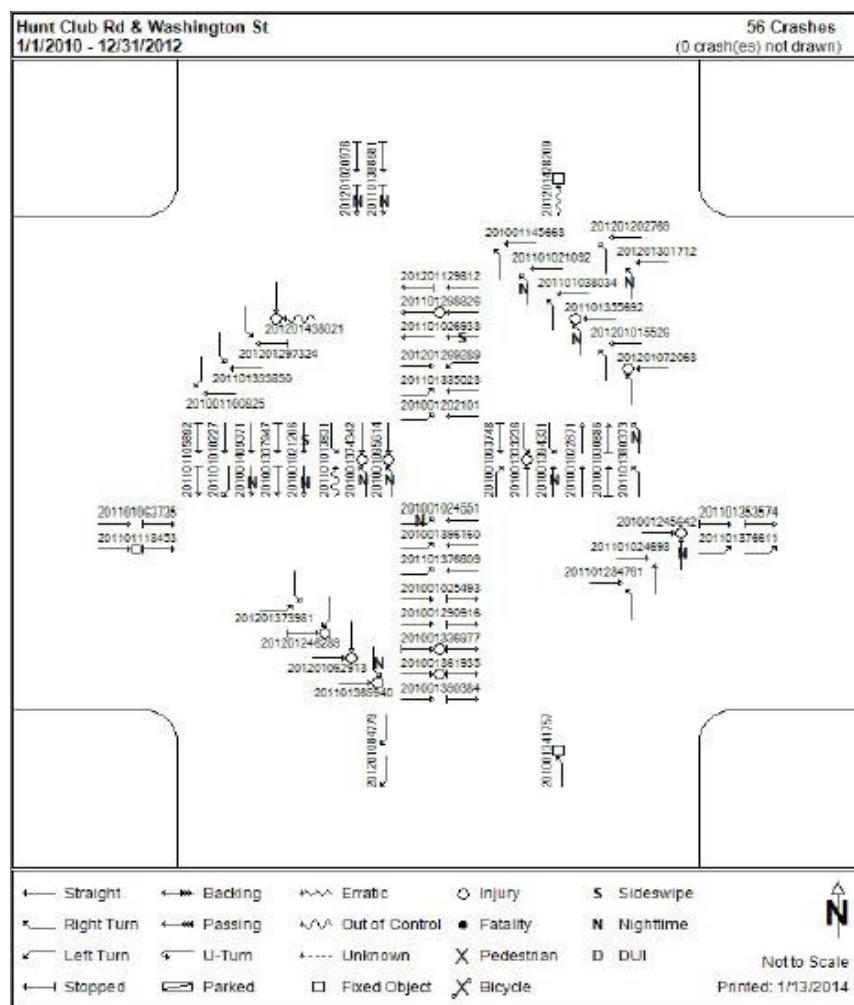
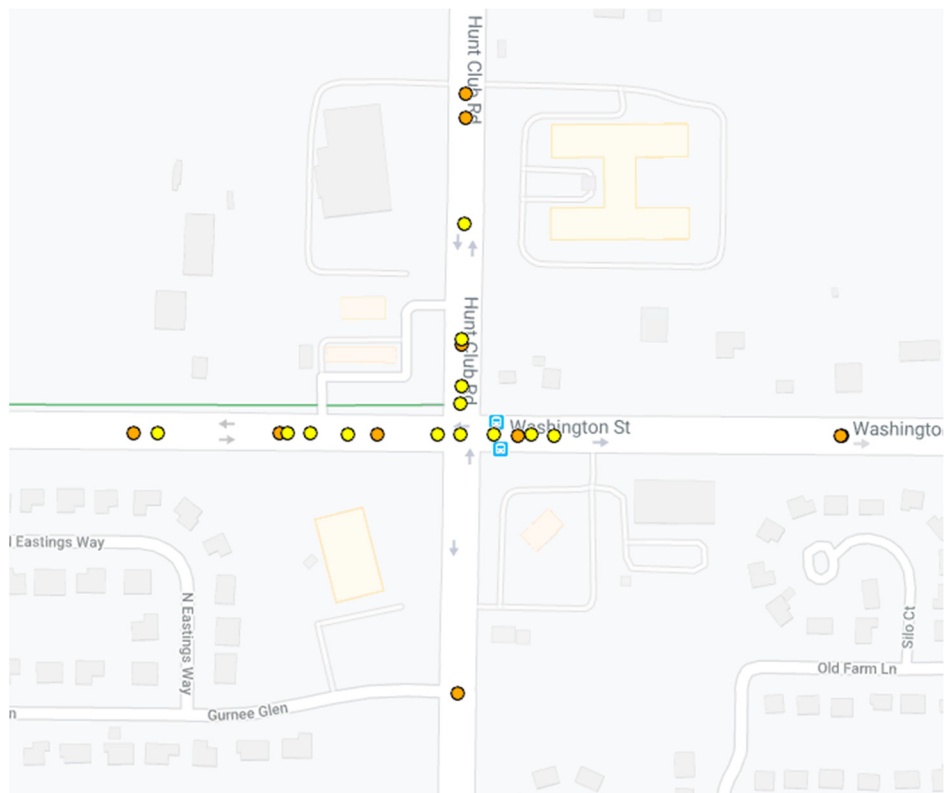
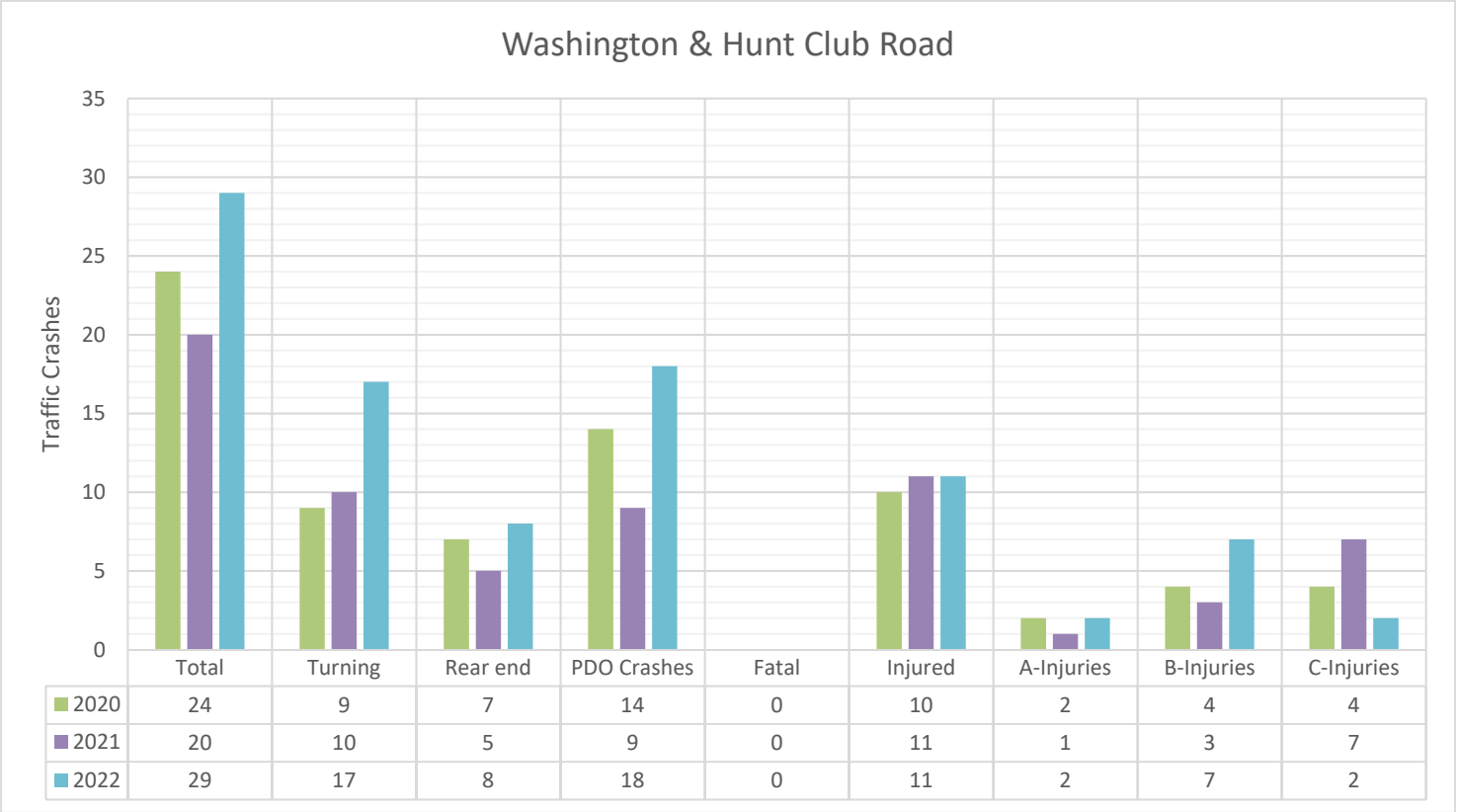
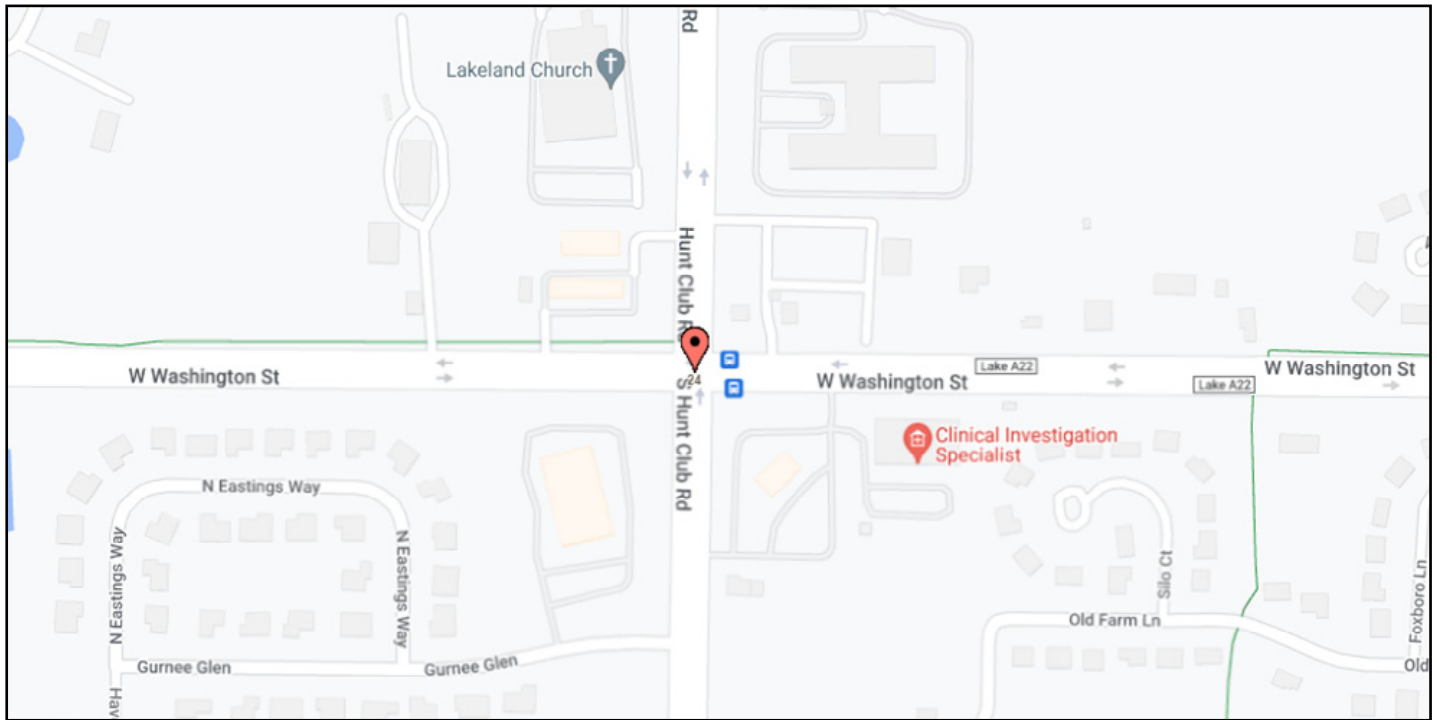


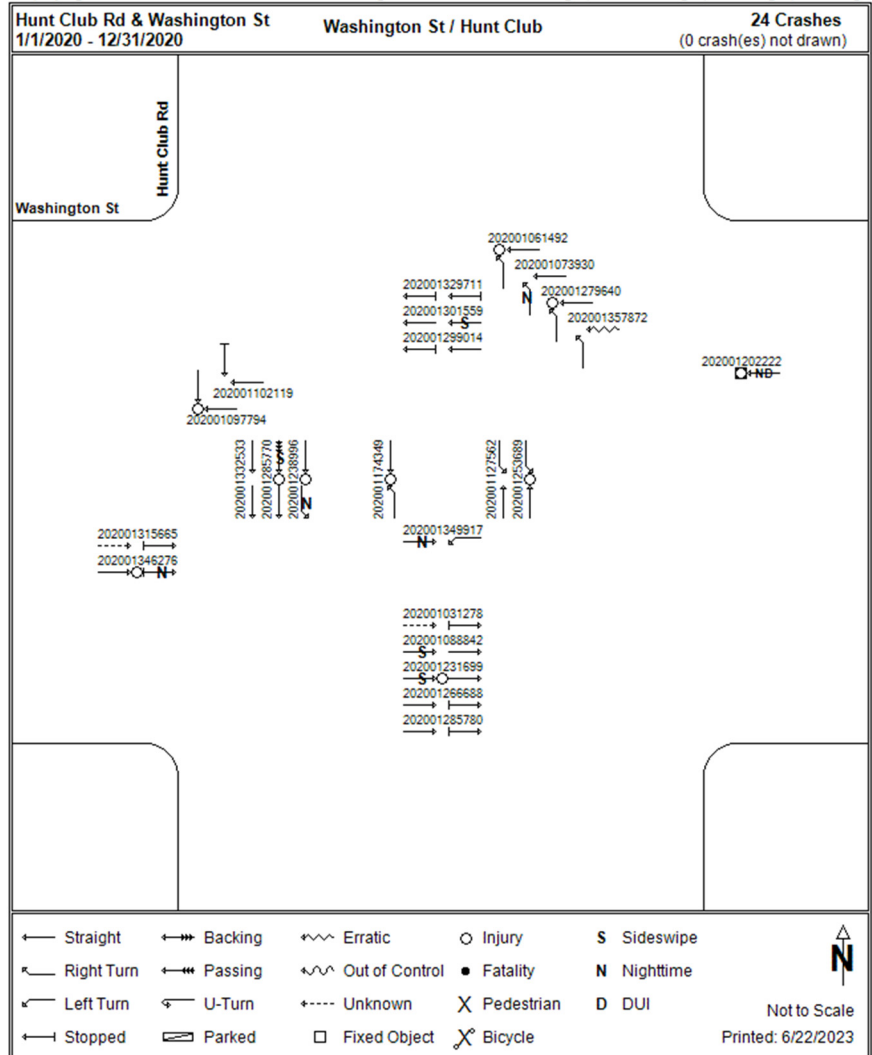
Exhibit 2



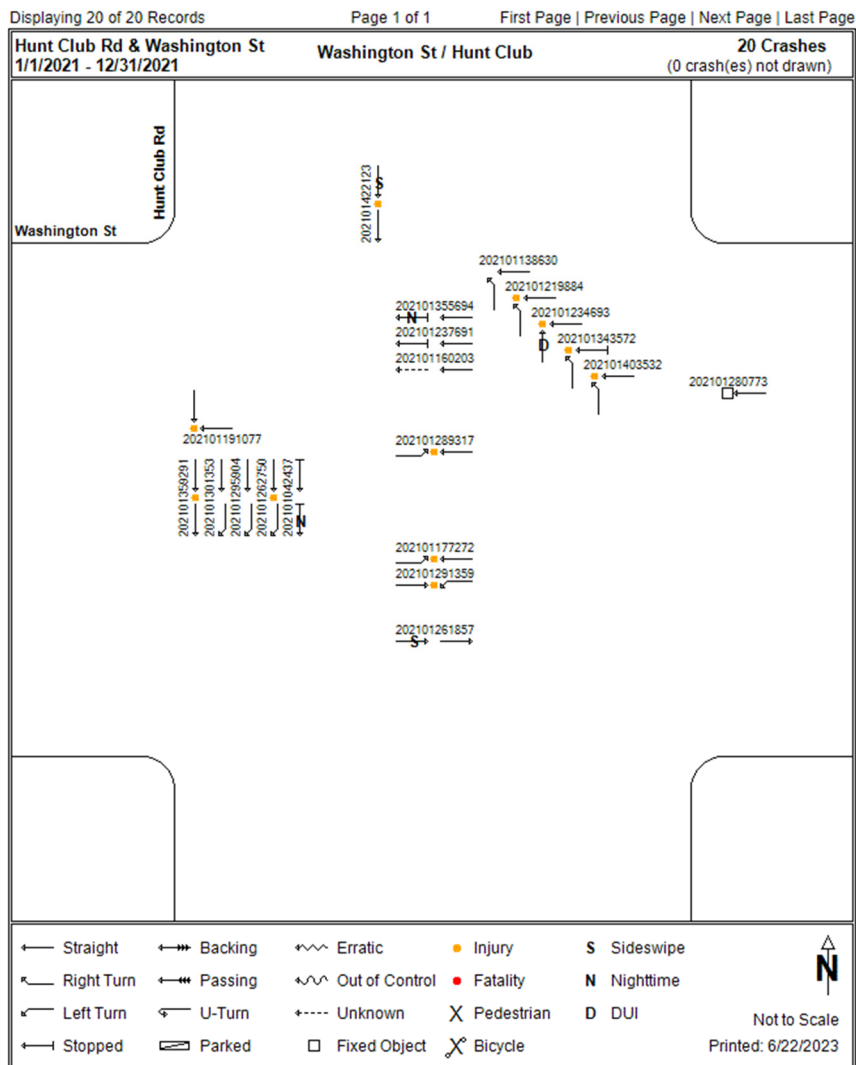
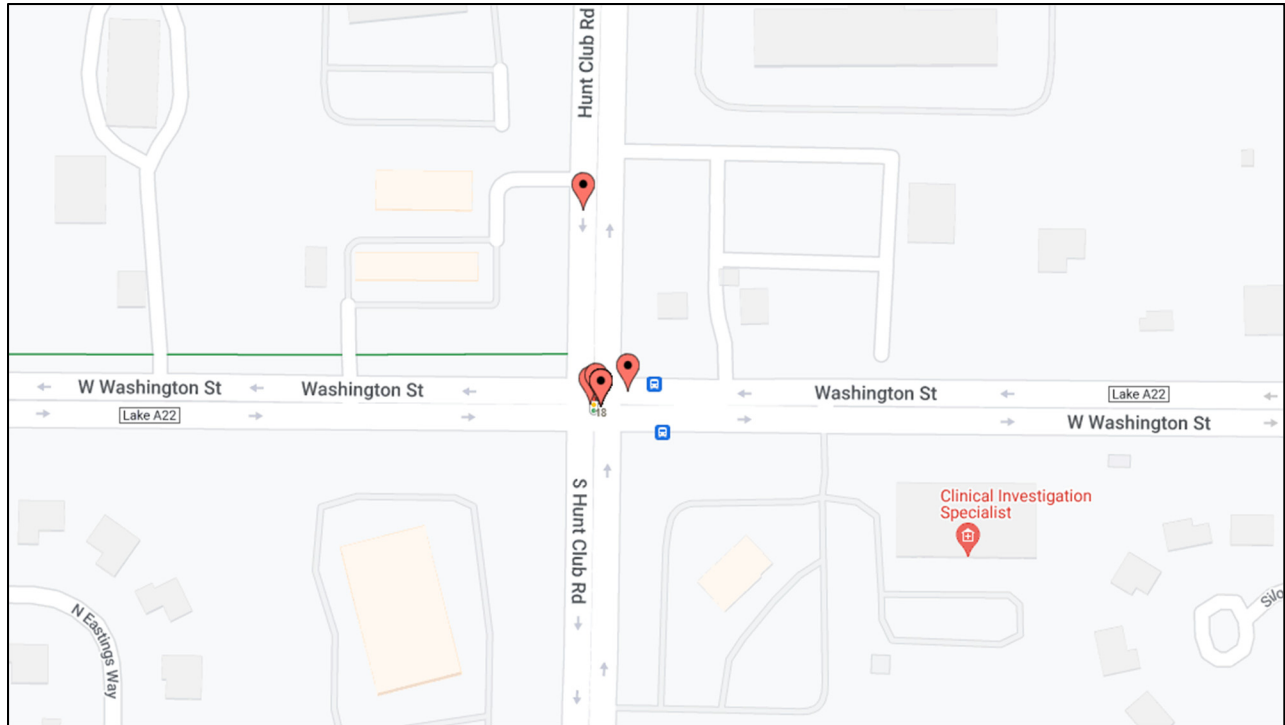
2020 Traffic Crash Map & Collision Diagram (Data located on Exhibit #2) Washington St and Hunt Club



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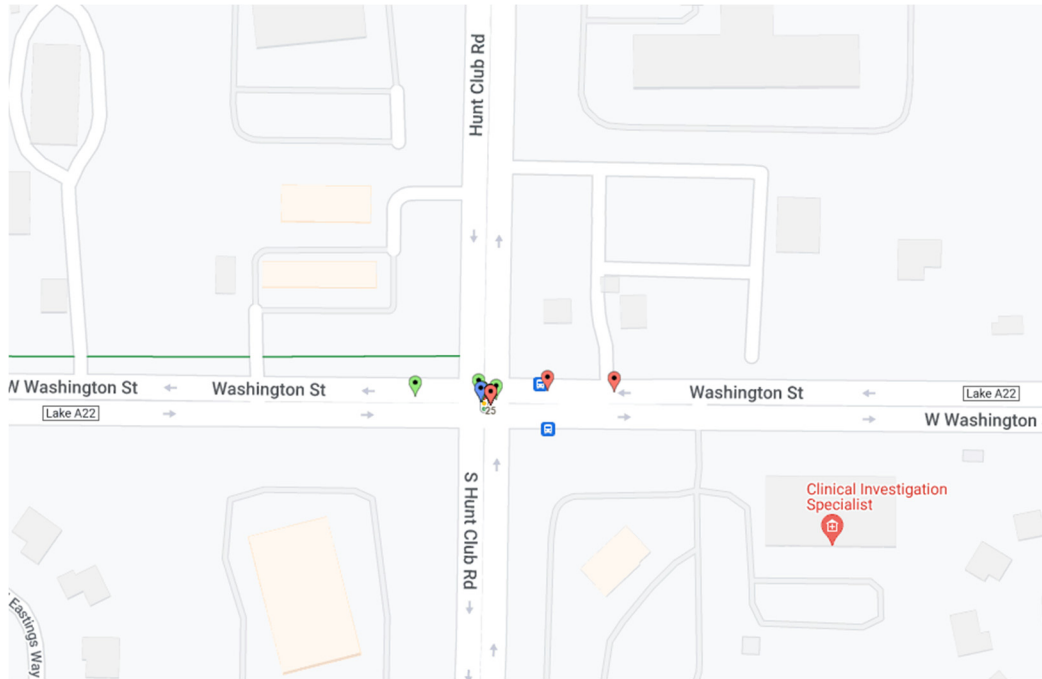


2021 Traffic Crash Map & Collision Diagram (Data located on Exhibit #2)
Washington St and Hunt Club

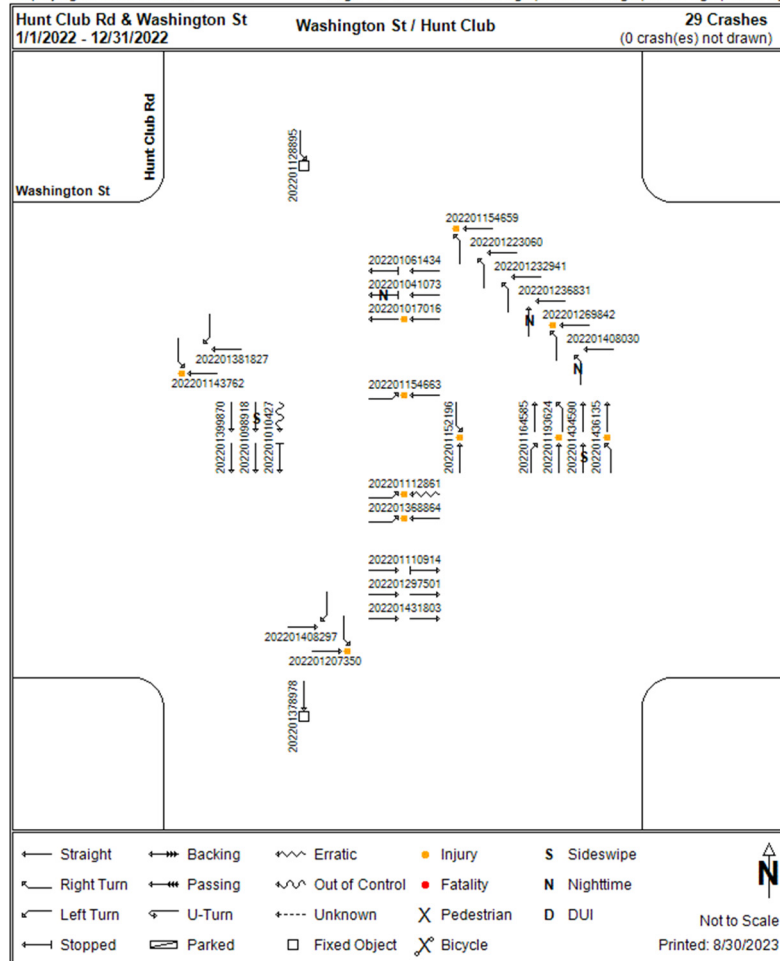


2022 Traffic Crash Map & Collision Diagram (Data located on Exhibit #2)

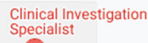
Washington St and Hunt Club



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Washington St and Hunt Club



Washington / Hunt Club									
Year	Total	Turning	Rear end	PDO Crashes	Fatal	Injured	A-Injuries	B-Injuries	C-Injuries
2010	22	10	9	16	0	6	0	3	3
2011	21	11	7	17	0	4	1	1	2
2012	25	10	10	20	0	5	0	3	2
Total	68	31	26	53	0	15	1	7	7
Year	Total	Turning	Rear end	PDO Crashes	Fatal	Injured	A-Injuries	B-Injuries	C-Injuries
2020	24	9	7	14	0	10	2	4	4
2021	20	10	5	9	0	11	1	3	7
2022	29	17	8	18	0	11	2	7	2
Total	73	36	20	41	0	32	5	14	13
Washington / Hunt Club	7%	16%	-23%	-23%	0%	113%	400%	100%	86%
	5	5	-6	-12	0	17	4	7	6

Crash Data Analysis

The total number of crashes for this period (73) was approximately 7% higher than the previous 3 year period in Exhibit 3 (68). While property damage only crashes (PDO) dropped, injury crashes increased. An examination of crashes for the current period was conducted with the following notes:

- *Rear end* crashes (20) dropped approximately 23% compared to the previous period total (26). A primary cause of failing to reduce speed (14 total) accounted for 70% of these crashes.
- *Turning* crashes (36) accounted for 49% of all crashes at this location. A primary cause of failing to yield right of way (26) accounted for 72% of these crashes.
- Overall injury crashes (32) did increase approximately 113% compared to the previous period total (15). 75% off all injury crashes are associated with *Turning* related crashes.

Signal Timings

Signal timings and other settings before and after RLR camera installation.

The traffic signal timings are not under control of the Village of Gurnee. As such, we do not possess this information.

Traffic Volumes

Traffic volumes before and after RLR Camera System installation. The traffic volumes shall include both Average Daily and Peak Period traffic.

The average daily traffic counts for each approach were obtained from the Lake County Division of Transportation and Illinois Department of Transportation at: <http://lake.ms2soft.com>

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

The traffic counts below reflect the available 3-years prior and the post camera installation traffic counts

3-Years Prior (2010-2012)

Washington Street westbound - 21,800 Washington Street eastbound - 19,800
Hunt Club Road northbound - 17,500 Hunt Club Road southbound - 21,300

3-Year Post Camera Installation (Most recent available)

Washington Street westbound – 26,300 Washington Street eastbound – 24,200
Hunt Club Road northbound – 20,700 Hunt Club Road southbound – 13,600

Recommendations

Recommendations to further reduce red light violations and severe crashes and to improve the operation of the intersection(s).

This intersection is scheduled in the near future for traffic safety reconstruction improvements including the addition of more lanes and protected left turns for all approaches. This would have been a first recommendation and we support this upcoming improvement. From 2006-2022 turning related crashes have accounted for approximately 54% of all crashes at this location. The addition of protected left turns is a significant step towards potentially reducing a large percentage of accidents and severity of injuries at this intersection.

Second; in concert with our goal to reduce the most dangerous type of crashes (angle or “T-bone”) at intersections within the Village, we recommend keeping both the eastbound and westbound photo enforcement approaches operational and to continue to analyze the intersection crash data over the next three years.

Adjudication Process

Provide a summary of adjudication experience and results.

The Village of Gurnee administrative adjudication system does not segregate enforcement approaches. As such, we are unable to provide data specific to each intersection.

During the examined time period we conducted 574 administrative hearings related to photo enforcement citations issued system-wide. Of those hearings, 406 of those were found to be Liable including those who failed to appear at their scheduled hearing.

Financial Report

Financial Report identifying the number citations issued, cost associated with the RLR Camera System and fees collected.

The total number of citations issued for this intersection from January 2020 through December 2022 was 3,820.

The total of fines collected from this intersection was \$307,389.88. The costs for lease payments, bank and various fees for this location during the same time period totaled approximately \$306,952.99. For this intersection the net revenue to the village during this period was \$436.89.