



## Office of Inspector General

# OFFICER INVOLVED SHOOTING REVIEW ADRIENE LUDD

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Inspector General

# Officer Involved Shooting Review

## Adriene Ludd

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# Officer Involved Shooting Review

## Adriene Ludd

### INTRODUCTION

The Inspector General's independent examination into the shooting death of Adriene Ludd was conducted at the request of Sheriff Scott Jones. The Sheriff's request was soon followed by a third-party community complaint alleging misconduct by Sheriff's Deputies in the death of Adriene Ludd.

The purpose of the Inspector General's investigation was to review issues of tactics, departmental policies, equipment, and training with the intent to identify lessons learned and develop recommendations. It is important to note that this review was conducted with the benefit of hindsight and the knowledge of all concurrent events. The ability to review reports, photographs, video, and audio multiple times and at slow speeds, allows for the critical review of the incident that is not available to deputies and witnesses who are living in the moment.

A separate independent review was conducted by the Sacramento County District Attorney's Office addressing legal issues associated with filing of criminal actions. The District Attorney's review concluded the shooting death of Adriene Ludd was lawful.<sup>1</sup>

### EXECUTIVE SUMMARY

On October 22, 2015, just before noon a Sacramento County Sheriff's Deputy attempted to stop a Chevy Impala driven by Adriene Ludd. Ludd failed to stop and led deputies on a high-speed pursuit through residential neighborhoods. Ludd eventually slowed his vehicle in what appeared to be an intent to flee on foot. He did not flee but turned his car perpendicular to the road and pursuing officers. He quickly exited the car and using the car as a barricade, pointed a loaded Tec-22 semi-automatic pistol with a large capacity magazine at pursuing deputies. Deputies and several witnesses feared that Ludd was attempting to shoot the deputies. In response deputies fired a series of rounds at Ludd that ultimately resulted in his death.

Based on physical evidence it appears the gun malfunctioned and attempts by Ludd to clear the weapon resulted in an additional malfunction. Ludd also possessed a .25 caliber pistol in his pants pocket and a Tec-9 semi-automatic pistol with large capacity magazines in his vehicle.

The review of documents, evidence, video, audio, and policies surrounding the death of Adriene Ludd developed into lessons learned and 13 recommendations, which are listed in the body of the report.

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<sup>1</sup> <http://www.sacda.org/files/3314/7768/8892/OIS -- Ludd.pdf>

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### METHODOLOGY

The Inspector General, with cooperation from the Sacramento County Sheriff's Department, Sacramento County District Attorney's Crime Lab, and Sacramento County Coroner's Office, gathered, reviewed, and analyzed documentation from many sources to develop an understanding into the death of Adriene Ludd. Policies, procedures, and training related to the activities leading up to and including the shooting were reviewed and compared to accepted best policing practices.

#### Document, Evidence, and Policy Review

To assist in the review information was collected from the following:

- Documents related to the shooting including witness statements, crime scene diagrams, Crime Lab reports, and Coroner's report.
- Photographs of the scene, video and audio from Sheriff's vehicles, body worn camera, and witness cell phone video.
- Physical viewing of evidence including the vehicle driven by Adriene Ludd, weapons seized, magazines, and ammunition seized.
- Direct observation of the pursuit route and location of the shooting.<sup>2</sup>
- Review of Sacramento County Sheriff's Department policies and applicable International Association of Chiefs of Police model policies.<sup>3</sup> Sheriff's policies include:
  - General Order 2/01 (Rev 6/13) Authorized Firearms and Ammunition
  - General Order 2/03 (Rev 5/08) Firearms Training and Qualification Special Weapon Training
  - General Order 2/05 (Rev 12/12) Use of Firearms
  - General Order 2/06 (Rev 10/07) Officer-Involved Shooting Incidents
  - General Order 2/11 (Rev 12/13) and (Rev 4/16) Use of Force Policy
  - General Order 2/16 (New 1/06) Weapons Discharge Reporting Incidents
  - General Order 2/17 (Rev 3/13) Use of Force – Tactical Review Board
  - General Order 6/02.2 (Rev 9/07) Operation of Sheriff's Vehicles Code-3 or in Pursuit
  - General Order 10/10 (New 9/07) In-Car Camera Systems

#### Lessons Learned and Recommendations

The review of documents, evidence, video, and policies surrounding the death of Adriene Ludd developed into lessons learned and 13 recommendations. Some of the recommendations were outside the scope of the shooting review; however they are important to the continued development of widely accepted policing practices within the Sacramento County Sheriff's Department.

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<sup>2</sup> Retracing of the pursuit route and visiting the shooting scene were completed months after the actual shooting.

<sup>3</sup> <http://www.iacp.org/Model-Policies-for-Policing>

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### INCIDENT SUMMARY

On October 22, 2015, prior to noon Deputy Daniel Rouse, while driving a marked patrol vehicle on Winding Way near Manzanita Ave heard a car with a loud muffler. Deputy Rouse followed the vehicle north on Manzanita Ave and determined that the vehicle, a Chevy Impala with CA License 3MRW499, had expired registration. The Impala, later determined to be driven by Adriene Ludd, turned east onto Madison Avenue and Deputy Rouse followed.

Shortly after turning onto Madison Avenue Deputy Rouse attempted to stop the Impala by activating his overhead emergency lights. In response Ludd turned right onto Schuyler Drive into a residential neighborhood and accelerated. After two blocks speeds reached 41mph and Deputy Rouse used two short siren blasts to get Ludd to stop. Ludd continued without yielding and at the intersection of Schuyler Drive and McKinney Way Ludd went through the stop sign at 35mph and then driving in the bike lane passed two cars on the right.

Ludd continued to accelerate to 52 mph crossing into the northbound lane on Schuyler Drive into oncoming traffic. Then at the intersection of Meadowvista Drive and Crestview Drive Ludd turned right on Schuyler Drive failing to stop at a stop sign. His speed through the stop sign was approximately 32 mph and Ludd continued accelerating to speeds near 60 mph. In response Deputy Rouse activated his siren continuously.

At Schuyler Road and Bourbon Drive, Ludd drove through a stop sign at 55 mph, continuing to Northcrest Circle where he turned right (west) and continued around Northcrest Circle at speeds reaching 54 mph. When he reached Crestview Drive Ludd turned right (south) onto Crestview Drive going through a stop sign at 26 mph. Ludd continued south toward Winding Way at speeds near 50 mph. When Ludd reached Winding Way he slowed abruptly and momentarily stopped allowing the lone male passenger to exit the car. Ludd then quickly accelerated onto Winding Way and fled west toward Garfield Avenue. Deputy Rouse detained the passenger and advised Sheriff's dispatch that the Impala was last seen westbound on Winding Way and that driver was wanted for traffic violations. The passenger later stated that he told Ludd to pull over and Ludd responded, "I can't do that right now, I got to take um on a run."

Responding to assist in the pursuit, Deputies David McEntire and Benjamin Green drove south on Garfield Avenue from the Sheriff's Garfield station. The deputies were in a white unmarked Ford Crown Victoria equipped with forward facing red and blue lights. Both deputies were in plain clothes and wearing external vests identifying themselves as Sheriff's deputies. As the deputies approached Winding Way the Impala driven by Ludd turned from westbound Winding Way to southbound Garfield Avenue. With Deputy McEntire driving the deputies pursued Ludd with lights and siren south on Garfield Avenue. With speeds reaching 90 mph Ludd drove

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through the stop sign at Garfield Avenue and Locust Avenue, then passed a vehicle on the left and proceeded to drive at a high rate of speed the wrong way in the opposing lane. At Cypress Avenue, with the lanes blocked by vehicles stopped for a red light, Ludd cut the intersection short and made a right turn onto dirt between a fence and utility pole emerging onto Cypress Avenue traveling west with Deputies McEntire and Green following.

As Ludd turned onto Cypress Avenue his driving behavior changed. He was traveling much slower and drove his car into the oncoming lane as if he was going to drive up onto the lawn of the residences along the south curb. The driver's door of the Impala opened as the car crossed over the bike lane and then Ludd changed direction and turned his vehicle to the right, across the eastbound lanes of Cypress Avenue, placing the vehicle nearly perpendicular to the traffic lanes where he stopped near the center of the road facing north.<sup>4</sup> Deputy McEntire who was close behind stopped the unmarked car facing west in the eastbound lane approximately 5 feet from the passenger side of Ludd's vehicle.

Ludd quickly exited his vehicle from the driver's door and turned toward the deputies who had also exited their vehicle. Ludd continued in his motion and pointed a Tec-22 semi-automatic pistol with a high capacity magazine over the roof of the Impala toward Deputy McEntire.<sup>5</sup> As Ludd was making this motion a deputy can be heard yelling something similar to "show us your hands." In an almost immediate response to Ludd pointing the gun at Deputy McEntire both deputies fire multiple rounds at Ludd who then ducked down behind the Impala. Both Deputies McEntire and Green along with several witnesses reported that Ludd fired at deputies before he ducked down. It was later learned through physical evidence that Ludd had not fired at deputies. A live .22 caliber bullet was located on the ground near the Impala's driver door and the Tec- 22 recovered near Ludd's body was inoperable because of a double feed into the chamber.<sup>6</sup>

The initial volley of rounds fired by Deputies McEntire and Green lasted approximately 6 seconds. Deputy McEntire fired from the driver's side of the unmarked car while backing toward the rear of his vehicle. While moving toward the rear of his car Deputy McEntire fell backwards causing witness to believe he had been shot. After the initial volley of rounds Deputy McEntire reloaded his weapon leaving two live rounds in the ejected magazine. During the initial volley McEntire fired 16 rounds, five of which went into the open driver's door of the unmarked car.

Deputy Green fired from the passenger side of the unmarked car advancing toward the front of Ludd's vehicle. Green is seen in the video ejecting the magazine from his weapon as he moved

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<sup>4</sup> Ludd's vehicle is observed rolling backwards toward the south curb line after he exited.

<sup>5</sup> Several witnesses reported seeing Ludd driving with a handgun in his hand while deputies were chasing him.

<sup>6</sup> The physical evidence suggest that Ludd attempted to fire a round and when it did not fire he ejected the round and a double feed occurred which disabled the weapon.

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away from the front of Ludd's vehicle back toward the unmarked car. During the initial volley of rounds Deputy Green fired 18 rounds. Deputy Troy Mohler who was arriving in a marked Sheriff's vehicle as the first volley stopped did not fire any rounds during the initial shooting.

Following the initial volley of rounds deputies can be heard asking if everyone is ok; telling each other not to go up because Ludd may be hiding; and yelling at drivers who were approaching to back up. There are also radio transmissions from deputies at the scene regarding their status and that the "subject" was down, only to be changed that the subject was moving.

Approximately 33 seconds after the shooting stopped deputies can be heard yelling for Ludd to get his hands up. It is during this time that Deputy McEntire looked under Ludd's vehicle and saw him on the ground moving into a prone shooting position as if he was preparing to shoot at deputies. Fearing Ludd would begin shooting, McEntire fired a single round under the car at Ludd and observes Ludd's gun fly into the gutter along the south sidewalk.

There is continued yelling by deputies for Ludd to "drop the gun" and "show us your hands." This lasted about 8 seconds when deputies observe Ludd moving away from the side of his vehicle toward the gun in the gutter. As Ludd moved toward the gun Deputy McEntire shot at him from the driver's side of the Sheriff's unmarked car. Deputy Mohler had moved up along the north curb line also saw Ludd moving and fired several rounds before moving back toward his patrol vehicle. Deputy Mohler then moved toward the front of Ludd's vehicle firing additional rounds. Deputy Green was near the front passenger side of Ludd's vehicle and fired rounds through the vehicle at Ludd. Both deputies were firing simultaneously.

As this round of shooting occurred Deputy Lemus was approaching from the west in a marked patrol vehicle. Lemus' in-car video recorded Ludd crawling toward the south curb as he is shot several times by deputies. The recording also captures a deputy removing a dark object from the gutter near Ludd that is later determined to be the weapon that Ludd pointed at deputies. The recording also shows deputies searching, handcuffing, and administering CPR to Ludd.

The total time from when deputies start firing as Ludd is crawling toward the gun and the last round is fired is approximately 17 seconds during which deputies can heard yelling "drop the gun." During this final shooting, there were 27 rounds fired. (McEntire 13 rounds – Green 6 rounds – Mohler 8 rounds) Included in the final 17 seconds is 2 seconds of time between when Ludd stopped crawling toward the sidewalk and the last round is fired. It appears 2 rounds were fired during that 2 second timeframe.<sup>7</sup>

After the final shot a group of deputies approached Ludd and one deputy removed the Tec-22 pistol from the gutter approximately 3-4 feet from where Ludd lay. After the gun was removed from the gutter deputies handcuffed and searched Ludd locating a loaded .25 caliber pistol in his pants pocket. Unable to remove the gun from his pocket deputies cut a hole in Ludd's pants

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<sup>7</sup> (Note - this :02 second time frame is included in the :16 seconds of total shooting time and the 2 rounds are also included in the 27 rounds fired)

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and removed the weapon. Deputies then started CPR approximately 10 seconds after removing the gun and continued CPR for nearly 6 minutes until Sacramento Metro Fire arrived and assumed medical responsibility. Adriene Ludd was pronounced dead at the scene.

### PHYSICAL EVIDENCE

The following is a list of weapons discovered during the investigation, a summary of the Coroner's report, toxicology, and gunshot residue tests. This list does not include other items collected such as additional ammunition, marijuana, cocaine, cocaine base, methamphetamine, and heroin, or personal items of Adriene Ludd.

#### Weapons Possessed by Ludd

The following are the weapons recovered from the scene, Ludd's pants, and his car:<sup>8</sup>

1. Intratec Tec-22 - .22 caliber pistol. The weapon had two rounds wedged into the chamber making the gun inoperable. Attached to the gun was a large capacity magazine containing 20 rounds.<sup>9</sup> This weapon was recovered from the curb line near Ludd's body.



Figure 1 Intratec Tec-22<sup>10</sup>

2. Raven Arms MP-25 - .25 caliber pistol. The chamber of the weapon was empty. Inserted in the gun was a magazine with 6 rounds. The weapon was discovered in Ludd's pants pocket.



Figure 2 Raven Arms MP-25<sup>11</sup>

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<sup>8</sup> The weapons illustrated are examples only and are not the actual weapons possessed by Adriene Ludd.

<sup>9</sup> Large-capacity magazine is anything with more than 10 rounds.

<sup>10</sup> <https://www.gunsamerica.com>

- Intratec Tec-DC9 – 9mm pistol. The chamber of the weapon had a single round. The weapon was recovered from Ludd’s vehicle at the Crime Lab. Also recovered from the vehicle were high capacity magazines and live rounds designed for this weapon.



Figure 3 Intratec Tec 9 <sup>12</sup>

#### Weapons Used by Deputies

The following are the weapons used by the deputies involved in the shooting:

Deputy McEntire fired 30 rounds.	Glock 17 Gen 4	9mm pistol
Deputy Green fired 24 rounds.	Glock 17 Gen 4	9mm pistol
Deputy Mohler fired 8 rounds.	Glock 17 Gen 4	9mm pistol



Figure 4 Glock 17 Gen 4 <sup>13</sup>

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<sup>11</sup> [http://www.imfdb.org/wiki/Raven\\_Arms\\_MP-25](http://www.imfdb.org/wiki/Raven_Arms_MP-25)

<sup>12</sup> <https://www.gunsamerica.com/>

<sup>13</sup> <http://www.guns.com/reviews/glock-glock-17-gen-4/>

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### Coroner's Report

The Sacramento County Coroner's Office conducted an autopsy of Adriene Ludd and determined the cause of death to be multiple gunshot wounds. Specifically, the report identified 13 gunshot entry wounds:

1. Entry left side of the head at the edge of the eyebrow exiting on the right temporal area.
2. Entry left side of the face exiting near the right eyebrow.
3. Entry back of the head on the left side with the exit same as entry.
4. Entry left side of the chest exiting slightly higher on the same side of the chest.
5. Entry left side of the torso with no exit wound.
6. Entry right side of the mid-back with no exit wound.
7. Entry right side of the lower back with no exit wound.
8. Tangential entry wound to the left elbow that and there is no exit wound.
9. Tangential entry wound to the left thumb and the exit is the same as the entry.
10. Entry right leg exiting on the right hip.
11. Entry back of the right leg with no exit wound.
12. Entry right inside ankle exiting right outside ankle.
13. Entry left upper leg/thigh exiting upper left thigh near the groin.

### Toxicology Results

In addition to the autopsy report blood alcohol and toxicology tests were conducted by the Sacramento County District Attorney's Office Crime Lab. The blood alcohol report lists no alcohol detected in Ludd's system. The toxicology report lists three confirmed types of tetrahydrocannabinols (THC) in his system:

Delta-9-THC 11ng/mL  
11-hydroxy-THC 7.0 ng/mL  
11-nor-9-carboxy-THC 40ng/mL

California has not established driving under the influence of THC levels. In states that do have driving under the influence of THC limits, levels range from 1-5ng.<sup>14</sup>

### Gunshot Residue

Sacramento County District Attorney's Crime Lab reported characteristic gunshot residue particles found on samples taken from Ludd's right hand. A presence of gunshot residue can result from discharging a firearm, proximity to someone who fired a gun, or contacting a surfaced that contained gunpowder residue.<sup>15</sup>

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<sup>14</sup> [http://www.ghsa.org/html/stateinfo/laws/dre\\_perse\\_laws.html](http://www.ghsa.org/html/stateinfo/laws/dre_perse_laws.html)

<sup>15</sup> Murtha, Allison C. and Linxian Wu. "The Science Behind GSR: Separating Fact from Fiction." *Forensic Magazine*. July 27, 2012. <http://www.forensicmag.com/article/2012/09/science-behind-gsr-separating-fact-fiction>.

## LESSONS LEARNED and RECOMMENDATIONS

### Use of Force

The 4th and 14th amendments of the U.S. Constitution provide the foundation for deadly use of force policies in the United States. Federal court guidelines stem from the benchmark 1985 decision of the U.S. Supreme Court in *Tennessee v. Garner*. This ruling held that the Tennessee statute that permitted police officers to use deadly force in arresting non-dangerous fleeing felons was unconstitutional. This ruling sanctioned the use of deadly force only to “protect the officer and others from what is reasonably believed to be a threat of death or serious bodily harm,” (or) “if it is necessary to prevent the escape of a fleeing violent felon whom the officer has probable cause to believe will pose a significant threat of serious physical injury to the officer or others.”<sup>16</sup>

It is clear by his actions during the pursuit and at the stop scene that Adriene Ludd was a risk to the safety of the community and the deputies attempting to apprehend him. Ludd’s aggressive driving at speeds reaching 90 MPH, failing to slow or stop at numerous stop signs, and driving into oncoming traffic presented a clear threat to safety of the public. He was able to draw deputies in close when it appeared he was going to flee on foot, only to turn his car perpendicular to the deputies enabling him to use his car as a barricade in what appeared to be an attempt to ambush the deputies.

While his aggressive driving did not reach the threshold for the use of deadly force, the threshold was reached when he pointed a loaded Tec-22 pistol at Deputy McEntire. Both deputies and the civilian witnesses believed that Ludd had fired at deputies. Both deputies reasonably feared for their lives and fired at Ludd.

### Value of Video and Audio

The thoroughness of this review is directly related to the availability of video and audio recordings. The involved Sheriff’s vehicles were all equipped with in-car camera video and audio. The availability of video included the pursuit of Adriene Ludd, the subsequent shooting, and the attempt by deputies to save Ludd’s life after the shooting. The Sheriff’s Department requires that officers shall record, both video and audio, all traffic stops, vehicle pursuits, crimes in progress, or any situation or event that the officer through training and experience believes should be recorded.<sup>17</sup> The video in all vehicles functioned as designed. Audio was available for portions of the incident but not as comprehensive as the video. It appears that audio microphones designed to be worn by deputies were either not worn or if worn not activated.

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<sup>16</sup> [https://cops.usdoj.gov/pdf/e10129513-Collaborative-Reform-Process\\_FINAL.pdf](https://cops.usdoj.gov/pdf/e10129513-Collaborative-Reform-Process_FINAL.pdf)

<sup>17</sup> Sheriff’s Department, County of Sacramento, General Order, In-Car Camera Systems, 10/10 (NEW 9/07)

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### Recommendations

1. The Sheriff's Department should revise General Order 10/10 to:
  - a. Require officers to wear and activate body worn microphones during all traffic stops, all vehicle pursuits, crimes in progress, and any situation or event that the officer through training and experience believes should be recorded.<sup>18</sup>
  - b. Establish a review of all critical incidents to ensure officers comply with the requirements of General Order 10/10.
  - c. Establish a random audit of in-car camera video to ensure officers are complying with the provisions of General Order 10/10.
2. Continue the evaluation of body worn cameras with the goal of full field implementation.

### The Pursuit

Adriene Ludd led Sheriff's Deputies on a pursuit through residential streets at speeds near 90mph. Ludd's driving required pursuing deputies to drive at similar speeds, although driving code 3 with lights and sirens, all vehicles involved presented a risk to the public. Sheriff's Department polices require officers involved in a pursuit to weigh many factors against the risk to the community including the seriousness of the originating crime, safety of the pursuing officer(s), volume and pattern of vehicular and pedestrian traffic, location of pursuit, speeds involved, and time of day.<sup>19</sup> This review noted that while a supervisor was monitoring the pursuit and requested the want, speed, and conditions, deputies did not provide the supervisor with information necessary to adequately evaluate the risks associates with the pursuit.

### Recommendations

1. The Department should ensure a comprehensive review of all pursuits to evaluate compliance with polices and training.
2. The Department should reinforce through training the dangers pursuits present to deputies and the public.

### Officer Safety and Ambushes

Adriene Ludd's behavior near the end of the pursuit led deputies to believe that he was going to quickly exit his car and flee on foot. The video confirms this assumption when he slowed after turning on to Cypress Avenue, directed his car toward the homes on the street, and opened the driver's door while the car was moving. In response deputies closed the gap and stopped their vehicle about 5 feet from Ludd's car and exited quickly to chase Ludd. What

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<sup>18</sup> When Sheriff's executive staff became aware of the microphone concern a directive was immediately issued reminding deputies of the requirements of General Order 10/10.

<sup>19</sup> Sheriff's Department, County of Sacramento, General Order, Operation of Sheriff's Vehicles Code-3 or in Pursuit 6/02.2 (REV 9/07)

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deputies did not anticipate was that Ludd did not flee on foot but rather use his car as a barricade and attempted to shoot deputies in what appeared to be an ambush of the deputies. Fortunately for deputies and the community, evidence suggests Ludd's gun malfunctioned and he was not able to clear the weapon.<sup>20</sup>

### Recommendations

1. The Department should use this shooting as an example of the importance of quickly exiting vehicles during high risk stops. The speed with which deputies exited their vehicle allowed them to quickly defend themselves. The Department should also reinforce the need to stay behind cover while assessing a suspect's intent.
2. The Department should reinforce the need to keep a safe separation between the deputy's vehicle and the suspects' vehicle. The deputy's response to Ludd's actions was to get close to Ludd to reduce the distance when Ludd fled on foot. Ludd did not flee on foot and his actions drew the deputies in closer, placing them at additional risk.

### Active Shooter Drills for Vehicle Stops

There were two distinct sets of rounds fired at Ludd by Sheriff's Deputies. There were 34 rounds fired in response to Ludd pointing a Tec-22 at Deputy McEntire. The second volley was in response to Ludd crawling toward the same weapon that had flown to the side of the road following a single shot at Ludd. There were 27 rounds fired in the second volley. In total 62 rounds were fired at Ludd. Of the total rounds fired up to 25 rounds could not have struck Ludd because they either did not penetrate through Ludd's vehicle or the rounds went through the vehicle driven by deputies.

### Recommendations

1. The Department should expand active shooter training, and the critical coordination required in the training, to vehicle stop scenarios.
2. The Department should use the results of this shooting to inform deputies of the ballistic characteristics of department approved weapons. In this shooting, upward of 40% of the rounds fired had no potential to stop the actions of Ludd. While the rounds fired may have influenced Ludd's actions they did not stop him until the end of the last volley.

### General Policy Considerations

The following recommendations are not a reflection of the response to this incident but items discovered when comparing the Sheriff's Department policies to similar policies of other law enforcement agencies.

The IACP model policy for use of force specifies two circumstances in which the use of deadly force may be warranted. The first is "to protect officers or others from what is reasonably

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<sup>20</sup> Based upon physical evidence it appears Ludd attempted to shoot Deputy McEntire and when the weapon did not fire he ejected a live round and the weapon entered a double feed situation which disabled the weapon until cleared.

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believed to be a threat of death or serious bodily harm.” Secondly, police officers may use deadly force to prevent the escape of a deadly felon who the officer believes will pose a significant threat of death or serious physical injury to the officer or others.<sup>21</sup>

### Recommendations

1. The Sheriff’s Department should consider revising General Order 2/11 and applicable section in General Order 2/05.
  - a. The term “reasonable” is used throughout the order. A concise definition in a single location would provide clarity and understanding. An example from IACP model policies reads; “In determining the necessity for and appropriate level of force, officers shall evaluate each situation in light of the known circumstances, including but not limited to the seriousness of the crime, the level of threat or resistance presented by the subject, and the danger to the community.”
  - b. Section II A 2 c should require the officer to have probable cause that a violent felony was committed **and** that if not immediately apprehended reasonable cause to believe the suspect may cause death or great bodily injury. The current policy allows either circumstance which is not consistent with contemporary practices.
2. Most of the policies reviewed in this report have not been revised in over three years. The Department should establish a policy review cycle that requires all policies to be reviewed and reissued or revised on a cycle no longer than three years.

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<sup>21</sup> <http://iacppolice.ebiz.uapps.net/PersonifyEbusiness/ModelPolicyList/MPUseofForce.aspx>

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APPENDIX

Timeline of Events<sup>22</sup>

TIME	ACTION
11:57:09	Deputy Rouse In-Car (ICC) is activated as he follows Ludd north on Manzanita Avenue.
11:57:36	Ludd turns east onto Madison Avenue.
11:57:40	Deputy Rouse activates his code 2 lights.
11:57:44	Deputy Rouse activates his code 3 lights without siren.
11:57:56	Ludd turns south onto Schuyler Drive and accelerates to 40mph.
11:58:21	Ludd runs stop sign at McKinney Way -- speed 35 mph.
11:58:23	Ludd passes two cars on right in bike lane -- speed 38 mph.
11:58:29	Ludd crosses into oncoming lanes -- speed 52 mph.
11:58:32	Ludd makes sweeping right turn on Schuyler Drive running stop sign at 30 mph.
11:58:41	Ludd crosses into oncoming traffic speed 46 mph.
11:58:47	Deputy Rouse activates siren continuously.
11:58:53	Ludd runs a stop sign at Bourbon Drive -- speed 55 mph accelerating to 63 mph.
11:59:01	Ludd sweeping right turn onto Northcrest Circle crossing into the opposing side of traffic and continues driving in the middle of the road.
11:59:14	Continues around the loop of Northcrest Circle crossing into opposing lane.
11:59:28	Turns right onto Crestview Drive without stopping at the stop sign.
11:59:41	Ludd slows as he approaches Winding Way. Front passenger door opens and passenger exits. Ludd makes a right turn onto Winding Way and flees.
11:59:45	Deputy Rouse updates dispatch that the vehicle fled and the driver wanted for traffic violations. Rouse stays with the passenger.
12:00:26	Deputies McEntire and Green observe Ludd turning from westbound Winding Way to southbound Garfield Avenue. Deputies activate red lights and siren and initiate pursuit.
12:00:48	Ludd runs stop sign at Locust Avenue speed approx. 90 mph. Passes a vehicle on the left and then drives in the opposing lane against traffic to Cypress Ave.
12:01:00	Ludd turns right through dirt onto Cypress Avenue.
12:01:08	Ludd slows on Cypress Avenue as Deputies McEntire and Green close the distance.
12:01:10	Ludd drives toward the south curb line.

<sup>22</sup> All times are approximate and based on In-Car camera video displayed times.

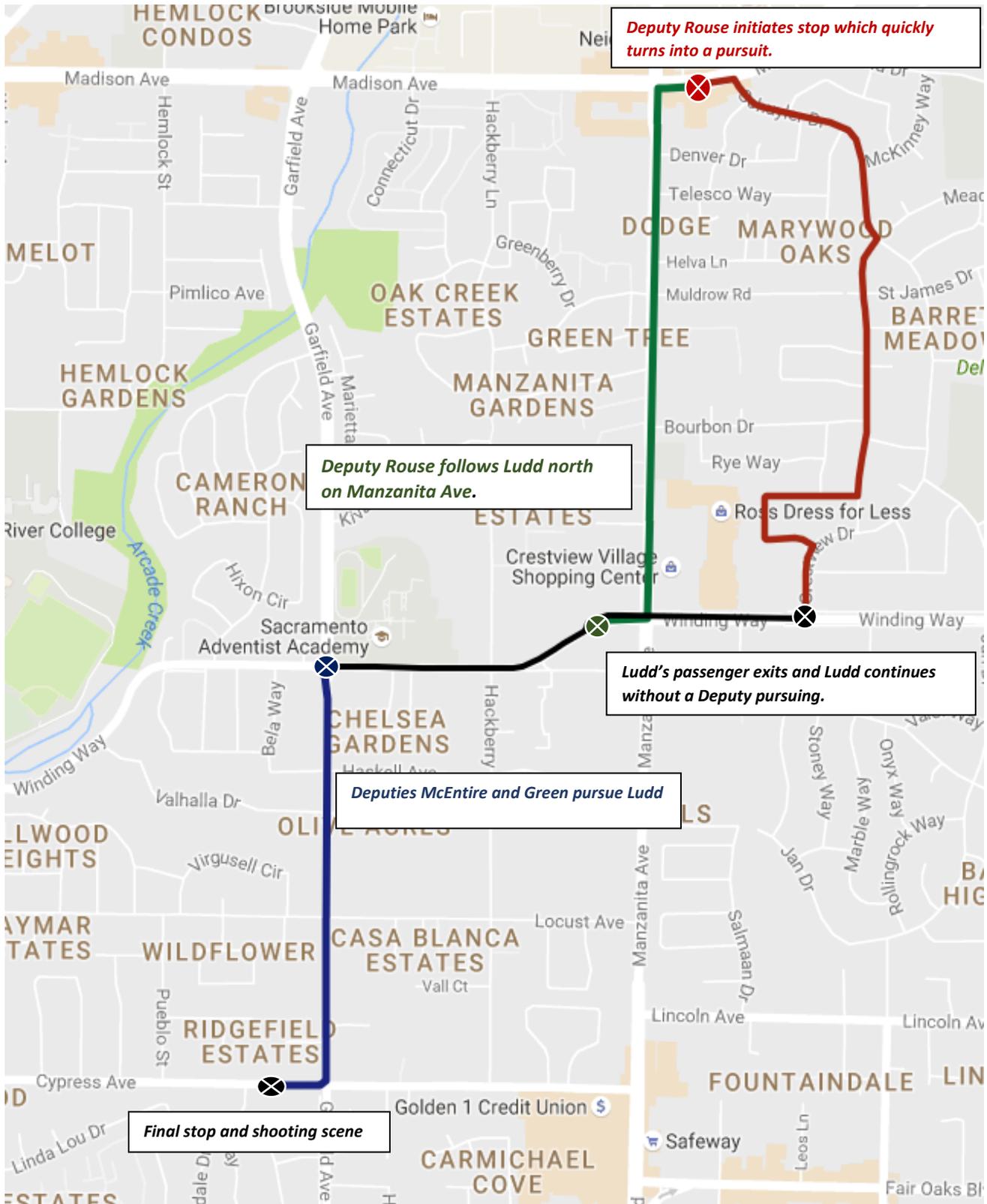
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12:01:12	Ludd's driver's door opens as vehicle crosses into the bike lane along the south curb line.
12:01:14	Ludd initiates a turn away from the south curb line and back toward the center line of Cypress Avenue.
12:01:18	Ludd stops in the middle of the road face the car northbound. There is traffic and cars approaching from the west.
12:01:20	Ludd exits the vehicle and points a weapon over the roof of the car toward Deputy McEntire. Ludd's vehicle rolls backwards a few feet.
12:01:21	Rounds are fired and seen hitting the passenger side of Ludd's vehicle.
12:01:26	Deputies stop firing and yelling is heard.
12:01:59	Deputies yell at Ludd to get his hands up multiple times.
12:02:12	Deputy McEntire fires a single round at Ludd.
12:02:20	Deputies see Ludd moving and fire at him while yelling "show me your hands."
12:02:30	Deputies yell "drop the gun" and shooting stops.
12:02:32	Deputies see Ludd crawling toward the gun that is now along the south curb line near the gutter.
12:02:33	Deputies shoot at Ludd as he crawls toward the gun.
12:02:35	Ludd's crawling toward the gun stops.
12:02:37	Shooting stops.
12:02:58	Deputies approach Ludd and gun is retrieved from the area near the gutter approximately 3 feet from Ludd.
12:03:47	Deputies start search Ludd and locate a gun in his pants pocket.
12:04:53	Deputies remove the gun in Ludd's pant pocket by cutting a hole in his pants.
12:05:03	Deputies start CPR.
12:10:54	Sacramento Metro Fire Department arrives and assumes responsibility for Ludd's medical treatment.

*Table 1 Timeline*

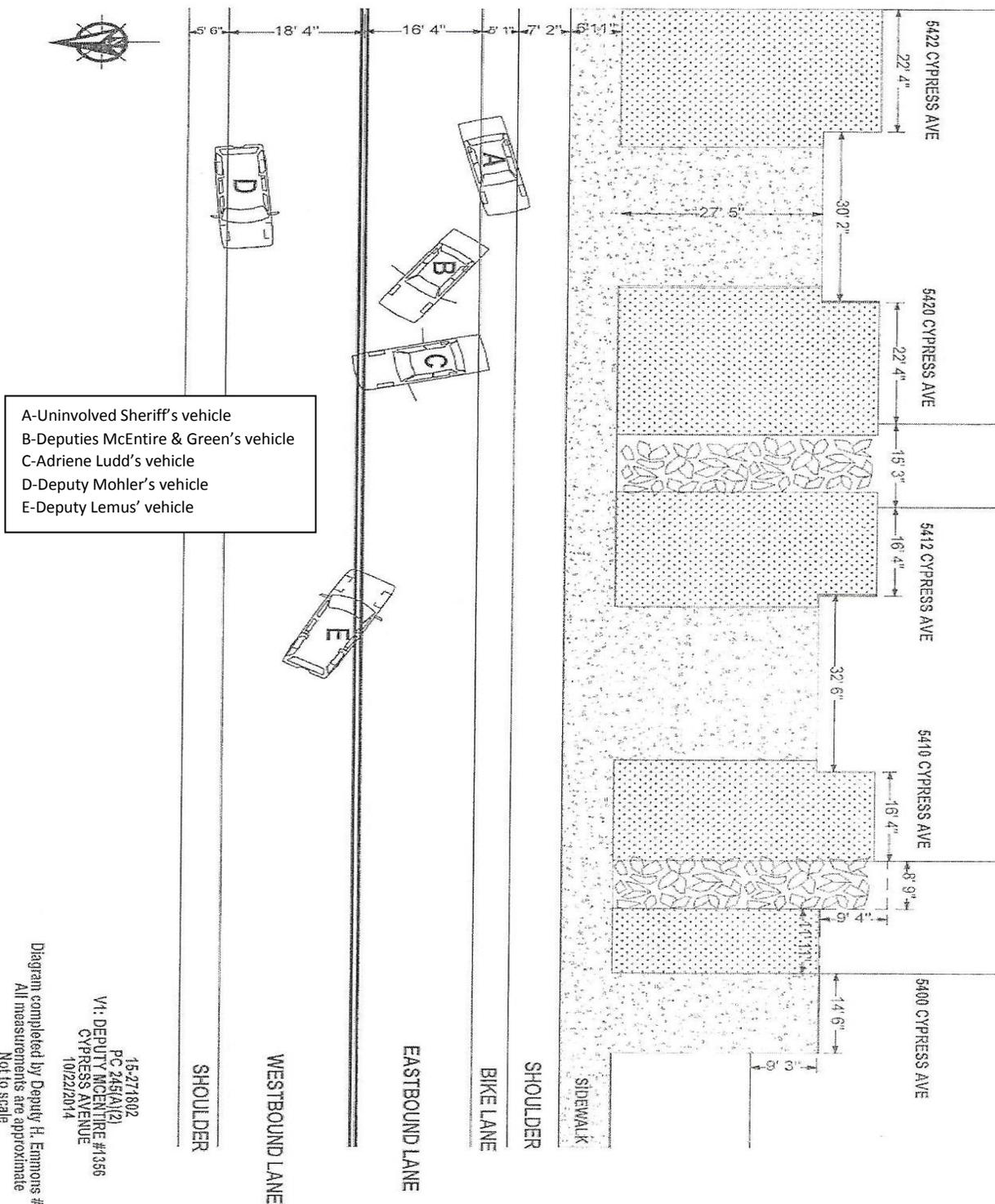
# Officer Involved Shooting Review Adriene Ludd

Map of the Pursuit



# Officer Involved Shooting Review Adriene Ludd

Shooting Scene Diagram<sup>23</sup>



<sup>23</sup> Scene diagram released to the family by Sheriff Scott Jones and included in this report.