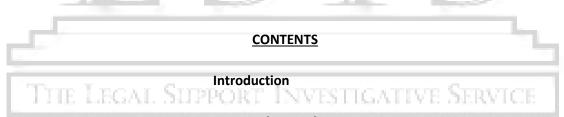
# **Investigations: Capturing Eyewitness Perspective**

Randall Alexander Licensed Investigator August 17, 2023





**Case Background** 

**Preparatory Research** 

**Field Investigation** 

**Documentation / Report** 

Closing

**Rules of Evidence re: Printed Representations** 

#### INTRODUCTION

In the 1992 comedy My Cousin Vinny, the criminal defense attorney played by Joe Pecsci has the insurmountable task of raising doubt before the jury in what appears to be solid eye witness accounts, linking the defendants to the crime scene.

With one witness in particular, Cousin Vinny is showing the witness photographs, and asks on cross examination, "So Mr. Crane, you can positively identify the defendants for a moment of two seconds, looking through this dirty window, this crud covered screen, these trees, with all these leaves on them, and I don't know how many bushes..."



As comical as the entire exchange was, there is an element of relevance to be taken away.

In your investigation, what could a witness actually see from their perspective at the time of the incident? And ... how can we replicate these conditions in an court approved evidentiary manner?

Factors that come into play are obstructions, lighting conditions, distance, weather, etc.

I hope you find the article informative!

#### CASE BACKGROUND

In 2008, I was approached by a civil attorney that gave me the following fact pattern.

- 1. Our client (plaintiff) arrived near a little league baseball field for a custody exchange at the end of practice. The plaintiff was on the sidewalk near her car when she was allegedly attacked by the other parent (defendant).
- 2. The defendant had several witnesses (friends) on the baseball field cleaning up, when they allegedly saw what occurred, stating the defendant did NOT strike the plaintiff with a closed fist.
- 3. An independent witness walking their dog on the sidewalk saw the incident as they approached from 30 to 20 feet away, with no obstructions.
- 4. It was dusk when the multiple defense witnesses allegedly saw the incident, while looking through two and sometimes three chain-link fences, from a substantial distance away.
- 5. Both parties, and all of the witnesses gave multiple statements to:
  - (a) responding police officers,
  - (b) the detective in a follow-up interviews,
  - (c) the investigator for the home owners insurance
  - (d) sworn pre-trial deposition.

The attorney questioned the validity of the defense witness statements based on inconsistency in their multiple statements, their distance from the incident, possible obstructions and the time of day.

### PREPARATORY RESEARCH

The first step was to read all of the witness statements and related reports, documenting the location of each witness at the time of the incident, as well as highlight the inconsistencies in their multiple statements.

Utilizing Google Earth to get a bird's-eye view of the area, I was able to pinpoint the location of the incident, as well as witness locations according to their statements.

I created a rough draft, NOT TO SCALE diagram using a free, very basic CAD program (2008), to accompany the Google Maps bird's eye-view screenshot of the area. The purpose was to mark where each witness was located at the time of the incident.

Since exact witness locations cannot usually be recreated in large open areas, their approximate distance from the closest fixed object was the most logical approach.



The incident occurred at dusk, roughly 6:15 pm, three years earlier (03-11-2005), so the next step was to check and confirm the outdoor weather and light conditions at the time of the incident.

The U.S. NAVAL OBSERVATORY maintains extremely helpful, historical tables of the sun and moon data by city. According to the U.S. NAVAL OBSERVATORY chart, on March 11, 2005, the sun set at 1813 military time, or 6:13 pm. The U.S. NAVAL OBSERVATORY website is still active.



The following is a screenshot of the historical data gleaned from the U.S. Naval Observatory website, The screenshot was cited in my investigative report, and admissible as evidence per CA Evidence Code 1552(a).

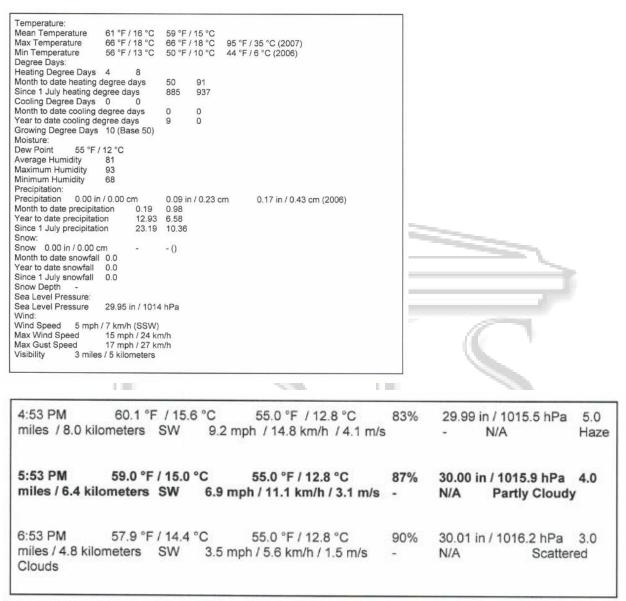
	Ta	ab	le													se/N ire Y			se	t,	or	.5
Loca	ation:	0 000	, 00,	, o 90 00	9			R	ise ar	CC nd Set	STA M		for	2005			U. S.	. Nava	al App 1 Obse	ervato	гу	)ept
										Univ	versal	Time										
		in.		eb.		ar.	Apr.		ау		ine		ly	Au	- Constanting	Sept.		ct.		ov.	De	
Day	Rise	Set	Rise	Set	Rise	Set	Rise Se			Rise	Set	Rise	Set	Rise	Set	Rise Set			Rise	Set	Rise	Set
01	h m 0600	h m 1807	h m 0610	h m 1817	h m 0609	h m 1816	h m h 1 0601 180		h m 1800	h m 0554	h m 1891	h m 0600	h m 1807	h m 0603	h m 1810	h m h m 0557 1803	h m 0546	h m	h m 0540	h m	h m 0545	h n
02		1808		1817		1815	0600 180			0554		0600		0603		0556 1803	0546		0540		0546	
02		1808		1817		1815	0600 180		1800	0555			1808	0603		0556 1803	0546		0540		0546	
04		1809	0610	1817	0608		0600 180		1800	0555			1808	0603		0556 1802	0545		0540		0547	
05		1809		1818	0608		0559 180		1800	0555			1808	0603		0555 1802	0545		0540		0547	
06	0602			1818	0608		0559 180		1800	0555			1808	0602		0555 1802	0545		0540		0547	
07		1810		1818		1814	0559 180		1800	0555			1809	0602		0555 1801	0545		0540		0548	
08	0603	1811	0611	1818	0607	1814	0559 180	6 0553	1800	0555	1803	0601	1809	0602	1809	0554 1801	0544	1751	0540	1747	0548	175
09	0604	1811	0611	1818	0607	1814	0558 180	6 0553	1800	0556	1803	0602	1809	0602	1809	0554 1801	0544	1751	0540	1747	0549	175
10	0604	1811	0611	1818	0607	1814	0558 180	6 0553	1800	0556	1803	0602	1809	0602	1809	0554 1800	0544	1750	0540	1747	0549	175
11	0604	1812	0611	1818	0607	1813	0558 180	0553	1800	0556	1803	0602	1809	0602	1809	0553 1800	0543	1750	0541	1748	0550	175
12	0605	1812	0611	1818	0606	1813	0557 180	4 0553	1800	0556	1803	0602	1809	0602	1808	0553 1759	0543	1750	0541	1748	0550	175
13	0605	1812	0611	1818	0606	1813	0557 180	4 0553	1800	0556	1804	0602	1809	0601	1808	0553 1759	0543	1750	0541	1748	0551	1758
14	0605	1813	0611	1818	0606	1812	0557 180	4 0553	1800	0557	1804	0602	1809	0601	1808	0552 1759	0543	1749	0541	1748	0551	1758
15	0606	1813	0611	1818	0606	1812	0557 180	8 0553	1800	0557	1804	0602	1810	0601	1808	0552 1758	0542	1749	0541	1748	0551	1759
16	0606	1814	0611	1817	0605	1812	0556 180	8 0553	1800	0557	1804	0602	1810	0601	1808	0552 1758	0542	1749	0541	1748	0552	1759
17	0607	1814	0611	1817	0605	1812	0556 180	8 0553	1800	0557	1805	0603	1810	0601	1807	0551 1758	0542	1749	0541	1749	0552	1800
18		1814	0611	1817	0605		0556 180		1800	0557			1810	0600		0551 1757	0542		0542		0553	
19		1814	0610	1817	0604	1811	0556 180		1800	0558			1810		1807	0550 1757		1748	12.5	1749		180
20	0607			1817	0604		0556 180			0558		0603		0600		0550 1757	0541		0542		0554	
21	0608		0610	1817	0604	1.5.5.5	0555 180		1800	0558		0603		10000	1806	0550 1756		1748	0542		0554	
22		1815		1817	0604		0555 180			0558		0603		0600		0549 1756		1748	0543		0555	
23	0608		0610	1817		1810	0555 180		1800	0559		0603			1806	0549 1756		1748	0543		0555	
24		1816		1817		1809	0555 180		1800	0559		0603		0559		0549 1755		1748	0543		0556	
25		1816		1816		1809	0555 180		1800	0559		0603		0559		0548 1755	0541		0543		0556	
26		1816	1976	1816	0602		0554 180			0559		0603		0558		0548 1755	0541		0544		0557	
27		1816		1816	0602		0554 180		1801	0559		0603		0558		0548 1754	0540		0544		0557	
28		1817	0609	1816	0602	1.1.1.1	0554 180		1801	0600		0603		0558		0547 1754			0544		0558	
29 30	1226.2	1817			0601 0601	1808	0554 180	0.000	1801	0600	0.000	0603	0.00	0558 0557	1000	0547 1754 0547 1753	0.000	1747	0545		0558	18.2
30		1817					0554 180		1801	0600	100/		1810	100000	1804	034/ 1/53	0540	1747	0545	1/52	0559	
31	0610	101/			0601	1807		0554	1801			0603	1010	0557	1004		0540	1/4/			0559	100/
								one hou	. e													

The website, WUNDERGOUND.COM was a fantastic resource, providing historical data regarding hourly temperature and weather conditions by city.

WUNDERGROUND

https://www.wunderground.com/

The following screenshots are from the WUNDERGROUND historical data that was cited in my report. Based on the historical data, we know that around 6:00 pm, the temperature was 59 degree Fahrenheit, and slightly cloudy. The WUNDERGROUND website is still active..



#### **FIELD INVESTIGATION**

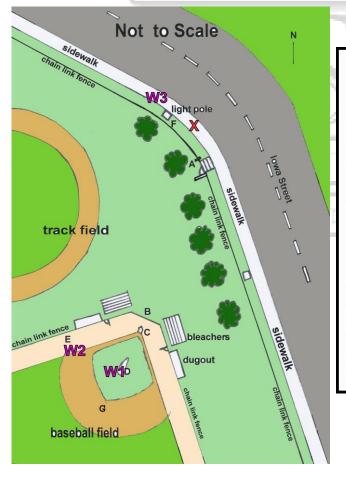
So at this point in the investigation, I know where the incident occurred, where the witnesses state they were located, and a good idea of what the weather and lighting conditions were like at the date and time of the incident.

The next step was to visit the location and identify fixed features that are in close proximity to where the witnesses stated they were located when they allegedly observed the incident. Then take measurements with a roller-tape and/or a tape measure, to ascertain the distance from the witness location to the point of the alleged battery.

NOTE: With large locations like this case, it's always helpful to have a second person with you to help hold the tape measure, take notes, document photographic evidence, etc. Measurements were taken with a 100 ft measuring tape and with a rolling measuring wheel.

The two main issues with the witness observations from the baseball field to the street was (1) the distance and (2) obstacles ... were they looking through multiple chain-link fences and poles when they allegedly observed the incident. It's critically important to make certain the measurements are accurate from the nearest fixed objects from the point of the incident and the nearest fixed object for the witnesses. Once that's established, you can complete a graph or a legend for your report upon return to the office. At a later time, the attorney can question the witnesses and ask their approximate distance from the nearest fixed feature ... "How far were you from 1<sup>st</sup> base?"

With reference to the diagram below, the incident occurred on the sidewalk indicated by the red "X", approximately 15 feet southeast of the concrete based, light pole. One of the key defense witnesses was located at the pitcher's mound, marked with a magenta colored "W1", where they stated they observed the incident.



#### **DIAGRAM AND MEASUREMENTS:**

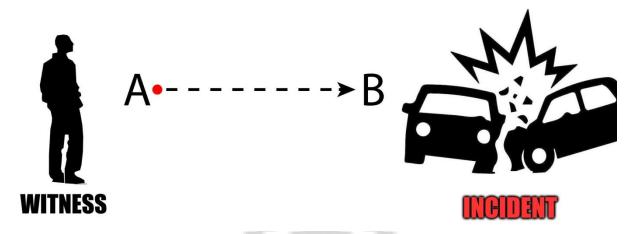
The legend for the diagram is as follows:

DESIGNATION	LOCATION				
A	concrete steps at pedestrian gate				
В	chain-link fence around ball field				
С	home plate on ball field				
D	pitcher's mound on ball field				
E	north dugout area on ball field				
F	street light lamp post				

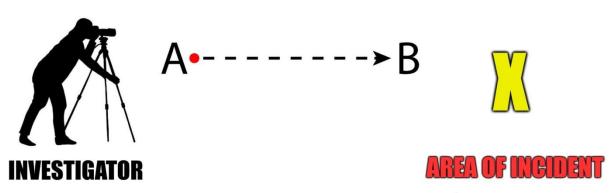
The following grid details the measurements and the photographs taken.

MEASURE FROM	MEASURE TO	DISTANCE	EVIDENCE IMAGE
А	В	122' 2"	n/a
В	С	25' 7"	
В	D	69' 4"	
А	E	154' 2"	
А	F	59' 9"	

The following three images are a visual concept of recreating the eyewitness perspective through photography.



Using the correct reference points, the investigator attempts to recreate the witness perspective, using 43mm lenses focal length on a full frame camera to replicate the naked eye view.



When taken with the proper lenses settings, then printed in 8x10, the witness or juror can hold a photograph in front of them and see the correct eyewitness perspective with the naked eye view.



# Viewing Eyewitness Perspective 8x10 approx 16 inches from face

After documenting the measurements from fixed points, the next step was to photograph the eyewitness perspective.

NOTE: Equipment Used –

**DSLR Canon with APS-C sensor** 

Canon 18mm x 55mm focal length zoom lenses set to manual focus,

Sunpack tripod

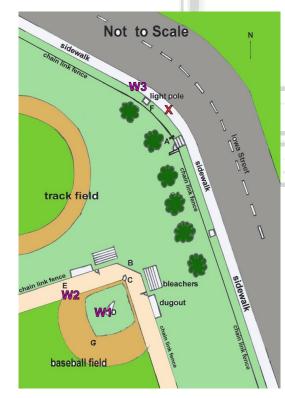
Shutter Release Cable Remote.

Since the camera used has an APS-C Reduced Sensor with a 1.6 crop factor, the lenses focal length was set at 27mm to accurately reflect the eyewitness perspective of a Full Frame camera with a lenses focal length of 43mm. (43mm  $\div$  1.6 = 27mm)

# W-1, Defense Witness (at the Pitcher's Mound)

With reference to the diagram and legend on Page7, the distance from the pitcher's mound (D) to the backstop fence (B), was 69' 4". The distance from the backstop fence (B) to the pedestrian gateway (A) by the sidewalk is 122' 2". The distance from the pedestrian gateway (A) to light-post (F) is 59' 9". The total distance from fixed points was 251 feet, while approximated line of sight distance from the witness to the incident was actually about 235 feet.

I took two sets of photos. The first was in bright daylight for clarity purposes, and the second was just after sunset under similar lighting conditions as the day of the incident.





Below is the second image taken at dusk from the pitcher's mound, the street lights are not illuminated yet. The plaintiff (client) can be seen in the center of the image wearing a black jacket, with her arms extended horizontally, with one hand open and the other hand in a clinched fist.



The photos of the key Defense Witness Eyewitness Perspective, in conjunction with the diagram, measurements and the multiple witness statements, provided the attorney with the essential information needed to raise doubt with the jury.

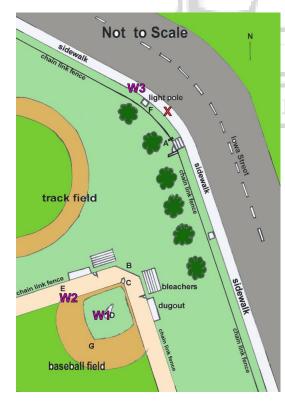
### W-2, Defense Witness (located at 1<sup>st</sup> Base)

An additional defense eyewitness (W2) was at 1<sup>st</sup> base gave multiple statements, stating he did not see the defendant punch the plaintiff. Based on the following image from 1<sup>st</sup> base, it was highly doubtful that he could see anything, ... he was quickly discredited. The following image was taken from the 1<sup>st</sup> base area, in the direction of where the incident occurred. As you can see in the following image, the eyewitness perspective from 1<sup>st</sup> base was obstructed by multiple fences as well as green, vertical privacy slats in the dugout, and the set of bleachers.



### W-3, Independent Plaintiff Witness (on Sidewalk)

The lone plaintiff witness (W3) was walking their dog, southbound on the sidewalk, and saw the incident at a closing range from 30 to 20 feet. The independent eyewitness did not know either party when the incident occurred. The witness gave three consistent statements and testified under oath at her deposition, supporting our client. The following image is from the eyewitness perspective.





I always anticipate that I will have to testify to my work therefore, I write a very detailed, comprehensive report supported by the evidence. If the facts and evidence support your well written report, it's not uncommon for a case to settle. However, if you are called to testify a year or two later, documentation of the smallest of details matter since as investigators we only get one shot to get it right.

There are several factors of your work you will need to address in your report, aside from the investigation itself. Very similar to this article, you will want to lay out what your assignment was. In my case example, the interviews were already done, so my assigned task was to review the numerous statements looking for contradictions and to document the Eyewitness Real Perspective at the location of the incident. If you do interview eyewitnesses, take a printed diagram of the scene with you and have them place an "X" where they were standing when they saw the incident, then sign it.

In the narrative of your report, you cannot document or testify what someone else may or may not have seen. You can state that based on the witness location, your photo evidence is a fair representation of what you, the investigator saw under similar circumstances.

Once your investigative report narrative is complete, you will need document the equipment and the settings that you used. Detail the camera brand, model and settings, the lenses brand, model and settings, etc. In addition to your photo evidence list, detail in your report how the photo evidence was processed, where are the original images stored, were any steps taken to lighten or darken the images for greater contrast, etc.

You should recommend the print size of the image, based on the camera sensor size and lenses setting, and viewing distance for maintaining the correct Eyewitness Perspective. Normally, 8x10 picture evidence of an image taken with a Full Frame camera, and a lenses focal length of 43mm, should be viewed or held approximately 16 inches from your face for correct Eyewitness Perspective.

I find it helpful to reference the appropriate evidence codes for submitting copies of photographs and screenshot copies of information gleaned from the internet. I attached the appropriate Evidence Codes for submitting copies of Photographic Evidence and Printed Representations of Information on a Computer, for screenshots of the weather conditions.

### **CONCLUSION**

In closing, the basic forensic photography training and detailed investigation in my case provided the attorney with the necessary tools to quickly and easily discredit the defense eyewitness testimony.

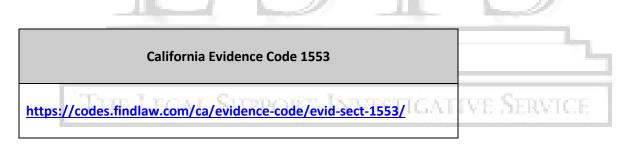
## **RULES OF EVIDENCE**

Rules of evidence regarding information and images gleaned from a computer / internet.

California Evidence Code 1552
<u>https://codes.findlaw.com/ca/evidence-code/evid-sect-1552/</u>

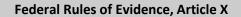
# CA Evidence Code 1552(a)

(a) A printed representation of computer information or a computer program is presumed to be an accurate representation of the computer information or computer program that it purports to represent. This presumption is a presumption affecting the burden of producing evidence. If a party to an action introduces evidence that a printed representation of computer information or computer program is inaccurate or unreliable, the party introducing the printed representation into evidence has the burden of proving, by a preponderance of evidence, that the printed representation is an accurate representation of the existence and content of the computer information or computer program that it purports to represent.



# CA Evidence Code Section 1553 -

(a) A printed representation of images stored on a video or digital medium is presumed to be an accurate representation of the images it purports to represent. This presumption is a presumption affecting the burden of producing evidence. If a party to an action introduces evidence that a printed representation of images stored on a video or digital medium is inaccurate or unreliable, the party introducing the printed representation into evidence has the burden of proving, by a preponderance of evidence, that the printed representation is an accurate representation of the existence and content of the images that it purports to represent.



https://www.rulesofevidence.org/article-x/

The Federal Rules of Evidence, Article X – Contents of Writings, Recordings and Photographs, addresses photographic evidence and duplicates as well.

<u>Federal Rules of Evidence, Article X</u> – Contents of Writings, Recordings, and Photographs Rule 1001(c) - Definition

A "photograph" means a photographic image or its equivalent stored in any form.

Rule 1002 - Requirement of the Original

An original writing, recording, or photograph is required in order to prove its content unless these rules or a federal statute provides otherwise.

Rule 1003 – Admissibility of Duplicates

A duplicate is admissible to the same extent as the original unless a genuine question is raised about the original's authenticity or the circumstances make it unfair to admit the duplicate.

#### ABOUT THE AUTHOR

Randall Alexander has been a California state licensed investigator since 1999, specializing in Civil Litigation and Family Law Litigation. In 2008, Randall was recognized as a <u>Subject Matter Expert</u> by the Bureau of Security and Investigative Services, a division of the California Department of Consumer Affairs. He has testified in civil and criminal matters in both state and federal courts.

Randall earned his Associate of Arts in Paralegal Studies from the Southern California College of Business and Law (ABA approved) where he completed coursework in Torts & Personal Injury, Civil Litigation, and Civil Procedures. Additionally, Randall completed undergraduate coursework in Administration of Justice. Additional training in crime scene investigations and photography includes:

Crime Scene Investigations - POST Advanced Officer Training, Fullerton College

Crime Scene Investigations – POST Administration of Justice, Golden West College,

Crime Scene Investigations – POST San Diego Police Academy, 832 pc

Forensic Photography as Evidence - George Reiss, Forensic Photographer, NBPD

Digital SLR Photography – North Orange County Regional Occupational Program (ROP)

B&W Photography (35mm SLR) – Golden West College, Huntington Beach