



Central Valley Chapter - California Land Surveyors Association
www.californiacentralvalleysurveyors.org

Central Valley Chapter THE PRISM

**Up
Coming
Meetings!**

Date: March 28, 2018

Time: 6:00 p.m.

Location: Perko's @ 901 North Carpenter Road, Modesto

Speaker: Round Table Discussion

Topic: "Style Checking vs. Technically Correct"

Date: April 25, 2018

Time: 6:00 p.m.

Location: Perko's @ 901 North Carpenter Road, Modesto

Speaker: TBD

Topic: TBD

Announcements

2018 CHAPTER OFFICERS

The Central Valley Chapter Officers for 2018 are as follows:

President - Rich Fultz
 Vice President - Will Paul
 Secretary - Rich James
 Treasurer - Warren Smith
 Director - Warren Smith
 Director (Odd Year) - Rich James
 Alternate Director - Will Paul
 Alternate Director - Rich Fultz

2018 CLSA CONFERENCE HAS LOCAL VENUE

The CLSA Annual 2018 State Conference is set for March 23-27, 2018 at the Hyatt Regency Hotel, in Downtown Sacramento. Go to <http://www.californiasurveyors.org/conference.html> for more information.

FOUNDATION CELEBRATES ANNIVERSARY

The California Land Surveyors Association Education Foundation is celebrating it's 25th Anniversary this month. Founded in 1993, over the past 25 years the Foundation has awarded over \$500,000 in scholarships to deserving college students majoring in survey related fields To make a donation to the Education Foundation, go to <http://www.californiasurveyors.org/educfound.html>.

2018 CHAPTER MEMBERSHIPS ARE DUE

Please help support your local chapter of the CLSA. Submit your 2018 membership dues as soon as possible. Bring a check to our next Chapter meeting, mail to the Chapter's home address, or go to the Chapter's website to pay with a credit card <http://californiacentralvalleysurveyors.org/join.shtml>.

2018 Chapter Officers

President: Rich Fultz
 Vice President: Will Paul
 Secretary: Rich James
 Treasurer: Warren Smith
 Chapter Director: Warren Smith
 Chapter Director: Rich James
 Alt. Chapter Dir: Will Paul
 Alt. Chapter Dir: Rich Fultz

2018 Chapter Committees

By-Laws Committee:
 Keith Spencer (Chairman)
 Education Committee:
 Keith Spencer (Chairman)
 Membership Committee:
 Rich Brown (Chairman)
 Monument Pres Committee:
 Mike Quartaroli (Chairman)
 Newsletter:
 Rich Brown (Editor)
 Professional Practices Committee:
 Mike Quartaroli (Chairman)
 Website:
 Keith Spencer (Web Master)

2018 Chapter Programs

Public Outreach Committee:
 Zachary Wong (Coordinator)
 Workshops:
 Rich Brown (Coordinator)

Table of Contents

Page 2 Classes, Training & Education
 Page 2 Editor's Message
 Page 3 Monument Obituaries
 Page 5 State News
 Page 8 Pictures of the Issue
 Page 8 Just For Laughs
 Page 11 Classifieds

Classes, Training, and Continuing Education

CAD Masters - AutoCAD Level I (3-Day Course)

Mar 12-14, 2018 Walnut Creek
 Mar 26-28, 2018, Sacramento
 Apr 9-11, 2018 Walnut Creek
 Apr 23-25, 2018, Sacramento
 May 7-9, 2018 Walnut Creek
 May 21-23, 2018, Sacramento

[Register here](#)

CAD Masters - AutoCAD Level II (2-Day Course)

Mar 12-13, 2018, Sacramento
 Apr 2-3, 2018 Walnut Creek
 Apr 26-27, 2018, Sacramento
 May 14-15, 2018 Walnut Creek

[Register here](#)

CAD Masters - AutoCAD Level III (1-Day Course)

Mar 29, 2017, Walnut Creek

[Register here](#)

CAD Masters - Civil 3D Introduction (3-Day Course)

Mar 19-21, 2018, Sacramento
 Apr 2-4, 2018, Walnut Creek
 Apr 16-18, 2018, Sacramento
 Apr 30-2, 2018, Walnut Creek
 May 14-16, 2018, Sacramento
 May 29-31, 2018, Walnut Creek

[Register here](#)

CAD Masters - Civil 3D Advanced (2-Day Course)

Mar 14-15, 2018 Sacramento
 Apr 16-17, 2018, Walnut Creek

[Register here](#)

Mark Your Calendars

CAD Masters - Civil 3D for Surveyors (2-Day Course)

Apr 17-18, 2018, Walnut Creek

[Register here](#)

CAD Masters - Map 3D (2-Day Course)

Apr 14-5, 2018, Sacramento

[Register here](#)

CLSA Webinars

NSPS CST Program

Apr 11, 2018, 11:00am-12:00pm

[Register here](#)

2018 CLSA Annual Conference

Hyatt Regency, Sacramento

Mar 23-27, 2018

[More Information here](#)

If you have information about a training or class, please submit to: editor@californiacentralvalleysurveyors.org

Editor's Message



Rich Brown

Last edition I announced that after 7 years I was stepping down as Chapter Secretary. I want to say a thank you to the members that have stepped up through the years to make our Chapter what it is today. We have done some great things, and continue to do so as we move forward. Central Valley Chapter has won numerous awards, including Chapter of the Year, Website of the Year, and Newsletter of the Year. We couldn't have done it without the continued support of our members.

I want to say a special thanks to those that have donated their time and energy to be on our Executive Committee or be on a committee like Monument Preservation. Please take a moment and thank these individuals for helping make our Chapter the best in the State.

If you would like to comment on this topic or suggest another, please submit it to: editor@californiacentralvalleysurveyors.org

Monument Obituaries

Mancuso Road Mass Monument Killing

By Mike Quartaroli, PLS



In December, 2017, the Survey Monument Conservation Committee of the CLSA Central Valley Chapter received an anonymous tip from a retired construction worker that a mass survey monument killing occurred on Mancuso Road, San Joaquin County. The informant concealed his identity and wanted no reward for the information. The savage crime had been weighing heavily on his mind, and he needed to absolve himself for being an accomplice. Mancuso Road originated in 1971 with the construction of I-5. Mancuso Road is a 1.5-mile-long frontage Road along the east side of I-5 north of Kasson Road at the south end of San Joaquin County. Mancuso Road has ten angle points. In 1971 the San Joaquin County Surveyors Office provided Caltrans with standard SJCO bolt & washer survey monuments which Caltrans set flush on the surface of the new road at each angle point. SJCO bolt & washer survey monuments are 5/8" x 24" steel pins with 2" washer brazed on top. Typically, the end of the pin is pointed to facilitate driving it into the ground. An experienced **"HOT-SHOT"** survey monument recovery forensic team was summoned to the crime scene. The old adage **"UNLEASH THE DOGS, AND THEY'LL DIG UP A BONE,"** is the haunting and poignant motto of the Survey Monument Conservation Committee. The chief investigator of the team, a world renown eccentric retracement land surveyor, immediately started his methodical search of the alleged crime scene. People have often compared the chief investigator to the absent-minded, disheveled Detective Columbo,

Continued on page 6

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State News

Capturing the Past - Historic Livermore Winery Building Lives on in a 3D Point Cloud

Livermore, California has a famous light...or more precisely, a lightbulb. For more than a century now the 4-watt light bulb, called the Centennial Light, has been burning since it was first clicked on in 1901. Housed in the Livermore-Pleasanton Fire Department Station #6, it glows dimly, but still functions as a light bulb.

The Livermore community has other historical phenomena of note, including a historic building on the grounds of the Sycamore Grove Park. Predating Livermore's historic lightbulb by about 15 years, the Olivina Winery building was constructed in 1885, which established one of the oldest wineries in the Livermore Valley. The Mediterranean-like climate-hot during the day and cool at night-is ideal for cultivating wine grapes and olive trees. Olivina pursued both businesses, thus the name, Olivina, coming from "olives" and "vines."

The Olivina winery building was unique because it is the first gravity fed winery in California. The founders cleverly built the four-story structure up against a hill so that freshly-harvested grapes could be loaded into the fourth-floor mashing room from up on top of the hill. Each floor below contributed to the wine-making process filtering out stems and reducing the pulp to liquid. The ground floor is where the juice was processed and loaded into kegs for final fermentation.

The hill not only provided the elevation for accessing the fourth floor, but was carved into to create an earth-cooled storage warehouse for the kegs filled with fermenting wine.

Olivina's wine production remained strong until the combination of fatal vineyard diseases, which were first occurring in Livermore vineyards just before the 20th century and Prohibition ceased production for good in 1920.

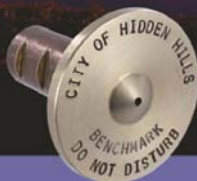
The winery remained vacant, once production stopped. "The building was fun to play in when we were kids," said Charles T. Crohare, master miller at Olivina, LLC and fourth generation-son of one of the founders. "I remember climbing the redwood steps to the top floor and exploring the building which was also a 'secret' make-out place for high-school kids, as evidenced by spray painted hearts with the likes of Johnny Loves Susie there for all to know."

Through years of dormancy and neglect, the building has been deteriorating.

Continued on page 9

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Monument Obituary, cont. from [page 3](#)

of TV fame. It didn't take long for the seasoned investigator to uncover the first deceased survey monument at Station 45+91. In utter shock and disbelief, the investigator uncovered three additional survey monuments brutally decapitated and bent over at 90° angles! They were located at Station 61+03, 69+38 and 71+38. A fifth bolt and washer monument located at Station 48+38 was totally annihilated. Not a trace of its existence is left. It was evident from clues at the scene, that there was a coordinated professional effort to cover up the crime scene. An asphalt chip seal compound was placed on the surface of Mancuso Road with a fresh centerline stripe and fog line stripes. New shiny reflector buttons were glued in place. The unsuspecting adjacent homeowners and passing motorists along I-5 had no clue that a brutal savage mass monument killing took place in front of these rural homes. The cover-up was perfect.

No sooner did the committee begin the Mancuso Road investigation that a second deep-throat informant came forward! This informant was cold-blooded, unemotional, and was only interested in profiting from the tragedy. A payment of 4,450-bit coins was negotiated and the informant divulged that a renegade, "WILD-EYED" construction crew on Manthey Road was amassing equipment and poised to viciously attack four defenseless, innocent bolt & washer survey monuments and an unknown number of various survey monuments on Dos Reis Road and De Lima Road. Manthey Road is the frontage road on the west side of I-5. No pre-construction monument preservation per Sec. 8771 was conducted by the local agency or the design consultant. The committee sprang into action and surfed the internet searching for support and sounding the alarm. The committee immediately provided protective mercenaries to guard the four bolt & washers as angry emails, with escalating rancor, were being traded between the committee and the local agency in an attempt to get corner records filed by the savage invading horde. The invading horde camped on their captured construction site as negotiations failed to result in any corner records being filed. The savage horde argued that they should be trusted and no harm would come to the four bolt & washer survey monuments. "WE DON'T NEED NO STINKING CORNER RECORDS" was their construction chant. Everyone associated with the savage horde rallied around the chant. Verbal assurances were made by the savage horde civil engineers, speaking on the condition of anonymity because of not being legally authorized to practice land surveying, that the topographic survey was "MUCH BIGGER, BETTER, AND MUCH MORE ACCURATE" than any corner record could ever be. The leader of the savage horde pronounced he was a "VERY STABLE GENIUS" and vowed he could recite the entire PLS Act if challenged. No one else knows the requirements of Section 8771 better than he! Certainly not the committee, even though its chairman has been actively involved in monument preservation for 30 years! Surely the location of the bolt

[Continued on page 7](#)

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Monument Obituary, cont. from [page 6](#)

& washer monuments must have been surveyed with the project topographic survey and that everything was under control proclaimed by the **STABLE GENIUS!** The topographic survey crew may have stumbled across and tied out the bolt & washers, but were they surveyed with the intent and purpose to use the data to reset them in case they were destroyed? Their response was that the survey crew used GPS and therefore there was nothing to worry about. The committee suspected the civil engineer consultants associated with the horde, did not understand the meaning of the question. The committee chose not to confuse matters by trying to explain the surveying differences. Why didn't the presence of the monuments alert the consultants to file a corner record? Why didn't alarm bells go off? The savage horde leader kept saying that the committee was over-reacting and that there was **NO COLLUSION!** He vehemently repeated, **"THERE IS NO COLLUSION WITH THE LOCAL AGENCY OR CONSULTANTS"**, all the while stabbing the air with his index finger! The committee has submitted an appeal to the **WORLD MONUMENT COURT** in Sacramento to adjudicate a peaceful solution. Saving and protecting this family of four historic bolt & washer survey monuments will be a tribute to the murdered Harlan Road bolt & washer family of survey monuments. Harlan Road is the east I-5 frontage road between Louise Avenue and Roth Road. Harlan Road had a thriving, productive surveying monument family of eleven monuments. Today only one original monument exists and none of the other ten bolt & washer monuments were ever preserved. Reflect on that statistic! This lonely monument is leading a hermits life isolated on a forgotten portion of Harlan Road that is no longer used because of a re-routing. He sits there neutered of any significance watching the traffic drive by and reminiscing of the old days when his purpose of establishing the centerline of Harlan Road had meaning and commanded respect. What does this say about the importance of survey monuments? The committee dreads the day they must agree to euthanize this poor lonely survey monument to make way to complete the abandonment of Harlan Road.

The Mancuso Road killing investigators interviewed various Public Works Officials and discovered that the day-to-day functions of the survey crew and field monument preservation efforts are under the sole control of the Road Division. The Road Division knew the survey monuments were there because the Road Division Survey Crew prepared the Pre-Construction Corner Record and filed it with the County Surveyor! An unbelievable revelation!

At a news briefing, it was revealed that sometime during the early hours of a quiet day in June, 2016 a murderous killing machine driven by a deranged operator decapitated four bolt & washer monuments and annihilated a fifth. The blade of a road grader was used to scrape across the surface of the asphalt road to "pop-up" the reflector buttons. The result was that the blade also decapitated the bolt & washers that were not set safely depressed below the surface. The horrific gouges from the road grader can be seen on the crime scene photographs. The fifth bolt & washer must have been literally ripped out of the ground. The steel pin skeletal remains are all bent south, in the direction the road grader was traveling. The killing machine road grader was stealth in its killing action. The Road Division closed out the job. No one looked back.

An extensive search was undertaken by the forensic team to find the mass grave of the decapitated brazed washers on Mancuso Road. Hope faded in finding the grave since so much time has lapsed and the search area is so extensive. The forensic team used diesel to clean the tar from the skeletal remains of the bent pins for documentation and re-burial services. The bent pins were photographed, cataloged, and "geo-tagged" with a Trimble Geo 7X hand-held GPS receiver. The County Surveyor was formally notified through the County "Go Request" internet notification system. The "Go Request" notification represents the Investigator's Murder Investigation Report coupled with the Coroner's Report. The Coroner ruled the cause of death for all five bolt & washer monuments as a homicide by blunt force trauma.

How could this have happened during a period of such intense focus and discussion on survey monument preservation and compliance with Sec. 8771? The destruction of the five bolt & washers were absolutely preventable. Why did it happen? Getting past that baffling question, isn't there protocol in place to review the project site before it is closed? Why weren't these destroyed monuments reset? This murderous episode points to many lapses BUT it also highlights the importance, significance, and purpose of filing pre-construction corner records. Not only did the corner record preserve the location of the five-destroyed bolt & washers, it established that a sixth bolt & washer located at Station 83+17 had been previously murdered. That murder could not be attributed to the 2016 project. Do not fool yourself, though. The future reset monuments will be close, but they will not be exactly where the originals were located. That is physically impossible. The reset monuments will be a compromise. That is why destroying the original monuments must always be avoided.

The announcements and proclamations that the committee constantly hears from various governing agencies expounding their implementation, progress, and successes of Section 8771 compliance measures is **FAKE NEWS, FOLKS.** The **FAKE NEWS** is repeated over and over again in an attempt to placate and numb the committee. The governing agencies view the committee as an annoying gnat, swatting at it in hopes it will go away. But the committee will persist in its goal to achieve statewide agency Sec. 8771 compliance.

Land surveyors are the stewards of the nation's property boundaries. Survey monuments marking boundaries is as old as civilization itself. Survey monuments fix property lines and right-of-way lines on the ground. Land is one of California's most precious assets. The ownership of land and consequently the ability to define boundaries, is dependent on monuments and their perpetuation. Speak out against these murderous actions! Do not believe the **FAKE NEWS.** Take action and do something to really preserve survey monuments. Support the efforts of the Survey Monument Conservation Committee of the CLSA Central Valley Chapter. Participate in the "Adopt a Monument" program. **GET INVOLVED!**

Pictures of the Issue

CSU Fresno Geomatics Conference, January 26, 2018

By Rich Brown



Pictured Clockwise:

Emily Morrow - Chuck Kincaid Memorial Scholarship
 Vincent Lazar - Thomas H. DeLaMar Memorial Scholarship
 Dan Dietrich - Aerial Photomapping Services (Sponsor)
 James Higgins - Jesse Stanley Memorial Scholarship
 Jason Paris - Lieca Geosystems (Sponsor)
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Just for Laughs

January's Answer

Sudoku:

The objective is to fill a 9×9 grid with digits so that each column, each row, and each of the nine 3×3 sub-grids that compose the grid (also called "boxes", "blocks", "regions", or "sub-squares") contains all of the digits from 1 to 9

9	2	6	8	7	5	3	4	1
5	4	7	1	2	3	9	6	8
1	3	8	9	6	4	2	5	7
8	6	4	3	1	9	5	7	2
7	5	3	4	8	2	6	1	9
2	9	1	7	5	6	4	8	3
3	7	9	6	4	1	8	2	5
4	8	5	2	9	7	1	3	6
6	1	2	5	3	8	7	9	4

Capturing the Past, *cont. from page 5*

"In 1974 our family sold/donated 800 acres including the winery building to create the Sycamore Grove Park," Crohare stated. "We were happy to see the land conserved and protected."

The Olivina land fits squarely into a South Livermore Development Plan that city, county, community leaders, and area businesses have all contributed to. The plan calls for preserving open space, controlling commercial and residential development, providing conservation easements, and ensuring that the land can be enjoyed by the community in perpetuity.

"It's our understanding that the Olivina winery building is a future candidate for a historic restoration, museum, or community center," stated Ron Oberlander who is with Topcon Positioning Systems, which is headquartered in Livermore. "That's why we decided to donate our time, expertise, and resources to create thorough architectural documentation of the structure."

The project became a learning opportunity for a group of Topcon interns who were able to use the most current Topcon technology and software to perform a 3D point-cloud scan for historical preservation purposes. With 3D scanning technology, the intern team captured precise dimensions in a noninvasive manner--in other words, no one needed to pass beyond the safety fencing or go into the building.

Weeks earlier the ruin next door collapsed. The intern team felt good that the scans they were completing will keep the dimensional data of the historic winery building protected from any such events. The data set can be used for later analysis such as taking measurements, tracing over a building layout, and converting the building into a computer model.

The intern team used a Topcon GLS2000 3D Laser Scanner to capture the old Olivina Winery building's structural dimensions. The eye-safe laser has a 1,640 foot (500 m) range which meant it could safely be positioned outside the deteriorating building's cordoned-off safety parameter.

The Topcon device is said to provide survey-grade accuracy which reduces the number of scan settings and it features dual

cameras designed to ensure the best definition.

Using newly launched MAGNET Collage Web software from Topcon, the intern team was able to take the 3D point clouds of the Olivina winery building it had recorded with the laser scanner and share them on the web. The integrated web service provides high-resolution point clouds of the winery building, which provides accurate distances, area measurements, and cross-sections that can be viewed, shared, or edited on the web.

"We're quite pleased with the results of the Olivina Winery building project on so many levels," said Oberlander. "Our interns had a meaningful project to further their learning, the Livermore Heritage Guild, which is a significant historical resource in the community, and the Crohare family now have definitive documentation of winery building, and the park service and community has valuable data for a time when any restoration might take place. A definite win for all involved!"

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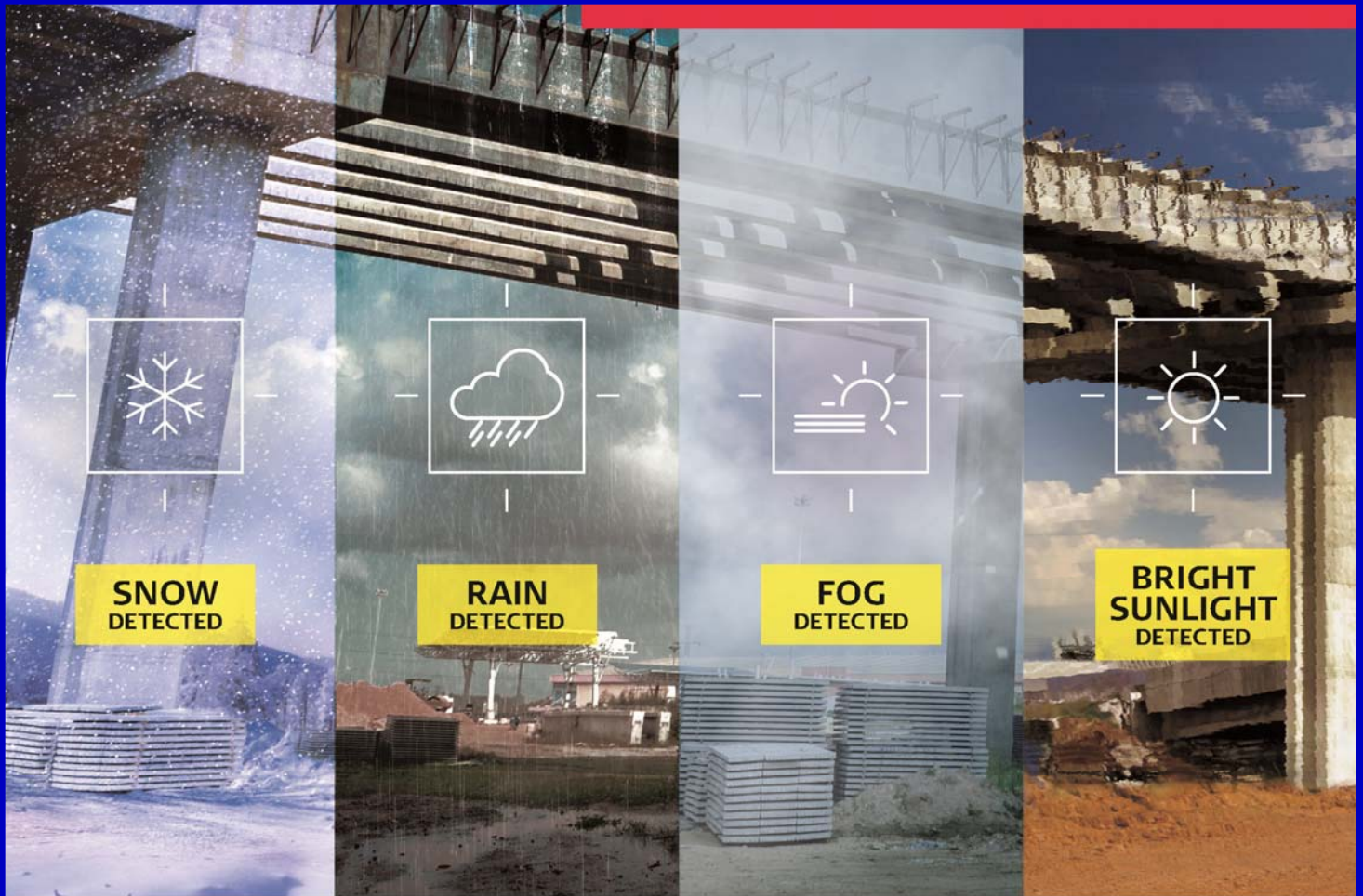
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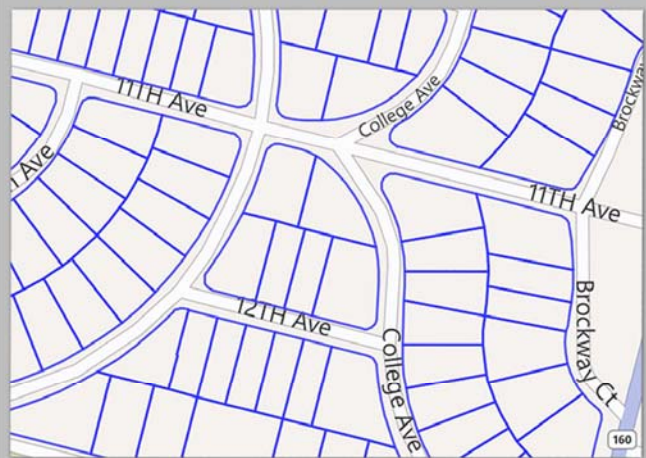


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CLSA EDUCATION FOUNDATION

Land Surveying Photo Gallery



California Land Surveyors Association Education Foundation would like to thank Bryant Sturgess for generously donating his collection of historic images.

The proceeds from the photos sold on this website will be used to fund scholarships for land surveying students.

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