



THE FLORIDA SURVEYOR

October 2020
Volume XXVIII, Issue 10

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FSMS Award Winners
FSMS Shout Out

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PRESIDENT'S message

2020 has definitely been a year of adaptation to challenges. Our ongoing public health issues have been preventing the administration of the state jurisdictional exam to prospective survey licensees in Florida. This examination has always been given in-person, with proctoring by state employees. Over the last several months, Liz Compton, the Executive Director of the Board of Professional Surveyors and Mappers, has been working on resolving the impasse.

I'm happy to report that this resolution is nearly complete. By the end of this month, surveyors should be able to take the Florida specific exam from Prometric testing centers. Prometric is a nationally recognized administrator for academic and standardized tests. Prometric centers are scattered throughout the state, which means that no Florida resident should have to travel for more than a couple of hours at most to take the test.

This approach is consistent with the method by which the NCEES tests are administered as well. This is a significant step forward for testing accessibility for Florida surveyors and would have been a great move even in an environment without pandemic concerns. In the current climate, this is the difference between the possibility and the impossibility of becoming newly licensed.

This outcome would not have been possible without Liz Compton's persistence and as a profession, we owe her our thanks.

Our gratitude is also due to another woman who has been working hard to improve access to the profession in Florida, Maria Barboza. Maria's informational webinar last month (regarding the path to licensure for educated and experienced people from Latin locales who are planning to or have already legally emigrated to Florida) drew over 100 registrants! With the amount of interest that webinar drew, we will likely ask her to do another in the coming months. Thanks again to Maria (and to Greys Ocando, who helped facilitate).

By the end of October, we anticipate the rollout of a number of revised continuing education correspondence courses. Be watching your inboxes for further announcements on that topic soon.

At last week's FSMS Board of Directors meeting, scholarships were awarded to three deserving applicants. With the cancellation of this year's conference, contributions to both scholarship funds and to the PAC were significantly reduced. For this reason, whatever you can do to assist as chapters or as individuals to help is much appreciated. While we are not all gathering together in person currently, the needs for the work that these funds help us to accomplish do continue on.

Finally, whether you are voting by mail, in-person at an early voting site, or in-person on Election Day, please educate yourself about the candidates and issues on the ballot and vote accordingly. Although the Presidential race tends to draw most of the attention, the impacts of state and local races and state constitutional amendments are the ones we commonly feel most directly.

Until next month, stay safe out there!



President

Don Elder

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donelderpsm@gmail.com

FSMS SHOUT OUT

ASSOCIATE MEMBER OF THE YEAR:
ANGELA BAILEY

FELLOW MEMBER:
RUSSELL HYATT

PROFESSIONAL EXCELLENCE AWARD:
CELESTE VAN GELDER

**STEVEN WOODS EXCEPTIONAL
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EARL SOEDER

COMMITTEE CHAIR OF THE YEAR:
DIANNE COLLINS

**H.O. PETERS SURVEYOR & MAPPER
OF THE YEAR:**
DONALD J. ELDER

JIM BENNETT BOARD MEMBER OF THE YEAR:
DODIE KEITH-LAZOWICK

*CONGRATS
TO
THE
FSMS
2020
AWARD
WINNERS!*



2020 UPDATED EDUCATION COURSES!

CHECK OUT PAGE 31 FOR DETAILS

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NEWS RELEASE

Trimble Announces the Next Evolution of its Flagship GNSS Solution

Trimble R12i GNSS Receiver Incorporates Robust Tilt Compensation to Increase Productivity for Land Surveyors

SUNNYVALE, Calif., Sep. 1, 2020—Trimble (NASDAQ: TRMB) introduced today the Trimble[®] R12i GNSS receiver, the latest addition to its Global Navigation Satellite System (GNSS) portfolio. The Trimble R12i incorporates Inertial Measurement Unit (IMU)-based tilt compensation using Trimble TIP[™] technology, which enables points to be measured or staked out while the survey rod is tilted, empowering land surveyors to focus on the job at hand and complete work faster and more accurately.

The IMU-based tilt compensation capability of the Trimble R12i builds on Trimble's unrivaled ProPoint[™] GNSS positioning engine, which delivers more than 30 percent better performance in challenging environments compared to the Trimble R10-2 receiver across a variety of factors, including time to achieve survey precision levels, position accuracy and measurement reliability. Designed with flexible signal management that enables the use of all available GNSS constellations and signals, the Trimble ProPoint GNSS engine provides new levels of reliability and productivity. In addition, the ProPoint engine is a key enabler of the new TIP technology. Surveyors can continue to use the R12i's tilt compensation functionality even in challenging environments when other solutions struggle to maintain GNSS and inertial positioning.

The Trimble TIP technology allows users to accurately mark and measure points in areas previously inaccessible for GNSS rovers such as building corners, or in hazardous situations, for example the edge of an open excavation. The receiver operates calibration-free out of the box and is resistant to magnetic interference from sources such as cars or electrical utility boxes. The R12i also features real time automatic Inertial Navigation System (INS) integrity monitoring. This system allows users to detect and correct for IMU biases introduced by use over time, temperature or physical shocks helping ensure measurement quality and integrity for the life of the receiver.

"The R12i represents Trimble's dedication to perfecting the user experience with the industry's best GNSS engine and now robust tilt compensation," said Ron Bisio, senior vice president of Trimble Geospatial. "Trimble has been the leader in GNSS technology for more than 30 years and the R12i demonstrates our continued commitment to providing surveyors with the world's most advanced and trusted GNSS systems."

Availability

The Trimble R12i GNSS System is available now through Trimble's Geospatial distribution channel. For more information, visit: <https://R12i.trimble.com>.

About Trimble Geospatial

Trimble Geospatial provides solutions that facilitate high-quality, productive workflows and information exchange, driving value for a global and diverse customer base of surveyors, engineering and GIS service companies, governments, utilities and transportation authorities. Trimble's innovative technologies include integrated sensors, field applications, real-time communications and office software for processing, modeling and data analytics. Using Trimble solutions, organizations can capture the most accurate spatial data and transform it into intelligence to deliver increased productivity and improved decision-making. Whether enabling more efficient use of natural resources or enhancing the performance and lifecycle of civil infrastructure, timely and reliable geospatial information is at the core of Trimble's solutions to transform the way work is done. For more information, visit: <https://geospatial.trimble.com>.

—more—

About Trimble

Trimble is transforming the way the world works by delivering products and services that connect the physical and digital worlds. Core technologies in positioning, modeling, connectivity and data analytics enable customers to improve productivity, quality, safety and sustainability. From purpose built products to enterprise lifecycle solutions, Trimble software, hardware and services are transforming industries such as agriculture, construction, geospatial and transportation. For more information about Trimble (NASDAQ:TRMB), visit: www.trimble.com.

GTRMB

—30—

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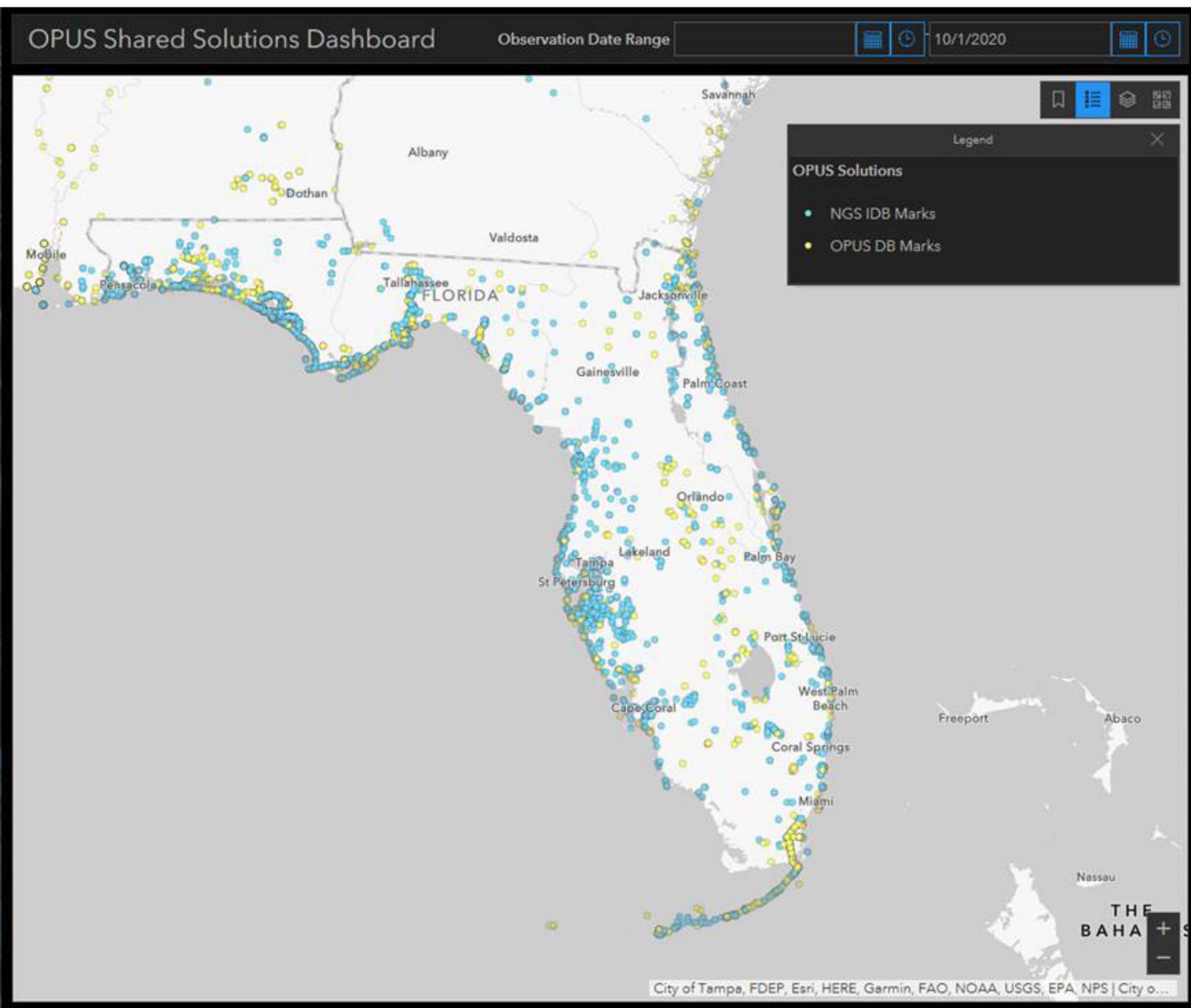
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NOAA GPS Benchmarks

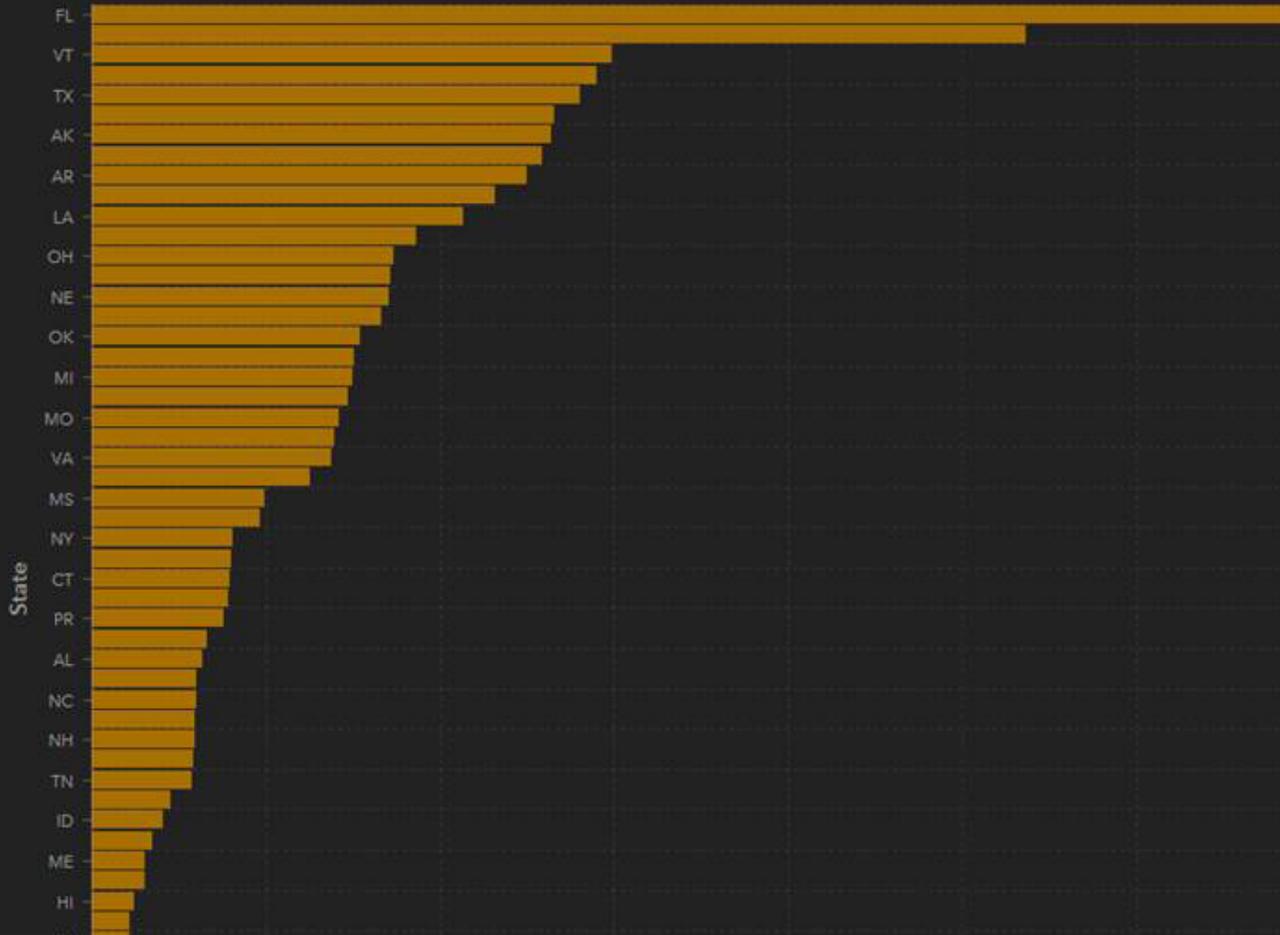
Florida is still the overall leader at least 2x more than any other State as of 10/1/20.

Thanks for your help in adding these new GPS data onto existing marks, maintaining local ties to the National Spatial Reference System. Discover these & more shared solutions using:

- OPUS Shared Solutions Dashboard, to filter by agency, date, and state.
- OPUS Share Monthly Map, another interactive map, formatted to facilitate integration of maplayers into your own web maps.



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FROM THE

ARCHIVES



SHADOWING PSMs

by Robert H. Hughan, Jr., PLS

During the month of March 2002, Jerry McCarthy (FDOT Survey, District IV) was contacted by Scott McLaughlin, President of the Broward County Local Chapter in reference to sponsoring a Career Shadowing Day for several high school mathematics teachers and their students. The idea was to teach the students how mathematics relates and interacts with surveying. Jerry McCarthy contacted Deborah Wells, Department Coordinator for the Broward County Schools, where she provided additional information on how to successfully host a one-day Shadowing Day for these teachers and students.

At that time, our department created a task team consisting of six employees. They were, Jerry McCarthy PLS, Kader Nazef, Paul Doll, Michelle Chafant, Mike Balogh and Dan Checchia, with John Brozic from our OIS Department as our Power Point advisor. Their goal was to formulate a program that would fulfill the requirements needed to host this Shadowing Day. After their meeting, they agreed that a Power Point presentation delineating the history of surveying, its methodology, and a pictorial on the instruments used in surveying and how they have evolved through the years as well as explaining how important mathematics is to the surveying field would be the most insightful method. This team worked very hard to prepare this presentation and they were prepared to tackle any questions the students or teachers would present.

On the days the presentations were to be held, it was important for the team to make the students and teachers alike feel comfortable. The students were from Miramar High School and the teachers represented seven different high schools within the District IV region. They were graciously greeted and introductions were made. The presentation began with Jerry McCarthy discussing the history of surveying and provided them with its definition, "Survey has to do with the determination of the relative spatial location of points on or near the surface of the earth." He went on to explain in terms these young students could understand this meaning. He discussed how explorers navigated the oceans using an astrolabe and sundials, such as Christopher Columbus. He also discussed how man created maps and provided a brief outline of the Lewis and Clark expedition. This was helpful to the students as they were all familiar with these explorers. He discussed how boundary surveying began in Egypt along the Nile River and how metes and bounds descriptions were used in Europe as well as in the original 13 Colonies in America. Photographs of three great American Presidents



were shown, George Washington, Thomas Jefferson and Abraham Lincoln, as they too were surveyors. Photographs of original government surveyors

depicting the hardships they endured were also shown. An explanation on how the Public Land Surveys vs. Metes and Bounds were made as well as how the initial point came about in Tallahassee.

Paul Doll followed the presentation and discussed datum's, coordinates, reference systems and photogrammetry. He explained that the starting point for the Horizontal 1927 datum was Meads Ranch in Kansas and that the Horizontal 1983/90 was best fit to the earth's center. The vertical 1929 datum was discussed including how it uses 26 tide gauges in the United States and Canada along with 100,000 benchmarks, and 102,724 km of leveling and how they were distorted to fit the tide gauges. The next item of discussion was the vertical 1988 NAVD based on Father's Point, Rimouski, Quebec, Canada and how it uses 450,000 benchmarks, with 1,001,500 km of leveling which best fits the continental model and uses the least square adjustment. He then discussed photogrammetry, the process of making maps or scaled drawings by aerial or other photography. The different accuracies using a fixed wing aircraft versus a rotary wing aircraft was discussed. LIDAR and how it is used in surveying was also discussed as well as trilateration and triangulation. He provided information on how these are used in surveying and photographs of the old towers were shown. Global Positioning Systems (GPS), rectangular coordinates, horizontal curves, right triangles, oblique triangles and leveling were also explained in detail.

Dan Checchia then provided a presentation on how surveying equipment has evolved through the years. He began by explaining how the different types of equipment operate, such as chains, a compass, a solar compass, transit, theodolite, data collectors and Global Positioning Systems. He explained to the students that the original chain was 66 feet long and consisted of 100 links and how today's chains and Electronic Distance Measurers (EDM's) function. He explained to them how a compass has no adjustment and always reads magnetic north, but that a vernier compass has an adjustable scale

that allows for setting off the magnetic declination, enabling you to read true north. He explained how a solar compass operates and how its special purpose is to obtain latitude and longitude and after it was invented it was required by law to be used on all public land surveys. He discussed how the transit and theodolite made it easy to read angles and how the total station was used to measure horizontal and vertical angles and distances along with the data collectors to record all of the information electronically. He concluded by explaining how the GPS was developed by the Department of Defense and how it is based on an intricate network of 24 operational satellites that are designed to be resistant to jamming and interference and uses an atomic clock for precise time, which is necessary to calculate the distances from the satellites to the ground and how Continually Operating Reference Stations (CORS) operate and indicated that FDOT, District IV Office building has one mounted on the north-west corner of its roof.

After the Power Point presentation concluded the team lead the teachers and students outside to have them implement everything they had learned. They were to collect some data with conventional instruments and learn how the GPS units work. After the data was collected it was brought in and processed so they could view a small Digital Terrain Model (DTM). The students were given safety equipment to wear and were organized the same way a surveying crew would be. They all seemed excited.

After all the presentations and demonstrations had concluded a small question and answer session ensued, and it was evident that their interest had been piqued. Some of their questions included, why there were no women surveyors. They were told that although District IV has no licensed professional women surveyors working in the surveying department, there were two women in the surveying department and one (Michele) was part of the six member team.

In conclusion the team felt that they had accomplished all that they had planned during their initial team meeting. They were able to provide insight on the history behind surveying, they taught the teachers and students the methodology behind surveying and gave them an opportunity to engage in a hands-on working environment, and of course the depth of importance mathematics plays in this dynamic field. The team worked very hard to prepare for these days, and it was evident that they all took pride in their field of work. Their history lessons in surveying were very refreshing even to the most experienced surveyors. Those long hours preparing for this day certainly paid off for this crew of six who took it upon themselves to provide a fascinating learning tool for these young students and their efforts are commendable in the eyes of all fellow surveyors. This was a very enjoyable experience for all of us and we welcome any ideas that would help improve any future Shadowing Days our Department will have.



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GET KIDS into survey!

By: Elaine Ball & Elly Ball

Get Kids into Survey is an organization set up by Elaine Ball in 2017. Elaine runs a technical marketing consultancy specialising in the geospatial industry. In October 2017, Elaine was asked to provide material for some free packs given out at The Survey Association (TSA) conference in the United Kingdom. Instead of creating some promotional

material about her marketing workshops, Elaine thought it would be more fun and rewarding to do something good for the industry. And so, with help from some of her friends in the industry to provide support for the cost of artwork and printing, Elaine created a poster for the surveyors attending the conference that they could take home to their kids. Through the poster the surveyors could teach their kids what they do at work thus also combating the issue of recruitment we face in the industry. It was a success.

After the initial 500 posters were printed, Elaine then went on to produce the Antarctica poster. The interest skyrocketed and went beyond anything we imagined. In 2018 Timothy Burch of NSPS went out of his way to visit Elaine in

Florida where she was attending a conference for her client TopoDOT. It was then that the NSPS took on the distribution of the posters for the Americas. With that, we went into a more regular production of posters and other educational resources.

Fast forward to 2019. With the incredible momentum of the interest in the posters, Elaine decided it was time to put a real focus on the GKIS initiative and make it into its own enterprise, rather than just something she did in her spare time. In February 2019 Elly, Elaine's younger sister, took over the day to day running of Get Kids into Survey.



In the last year we have gained 2 more distributors: The Chartered Institution for Civil Engineering Surveyors (CICES) in the UK for UK and Europe and more recently, The NSW Taskforce in Australia for Oceania who help us to distribute our posters to their region as well as promote and support us. Additionally, 37 Brand Ambassadors (and growing) now represent us in 8 different countries who go above and beyond to share our free resources as well as take part in career fairs and presentations in schools.

Since 2017 we have gained more than 65 sponsors over 15 posters who each support our mission and help us to produce not only posters, but comic strips, colouring in sheets, activity pages and lesson plans.

For this next year, our focus is to collaborate with more educational organisations globally to get our material in the classroom as part of school projects and used in amongst the curriculum. In 2021, we will also be producing a full comic book complete with activities supported by our sponsors as well as a teaching curriculum that complements it. Our plan is for kids not only to enjoy the comic book for fun, but that it can be used in the classroom or as a homeschooling resource.

To preview the comic series, the California Surveyor is printing the first chapter for us. Share with your kids and enjoy! You can find chapter 2 on our website and chapter 3 is currently being published in POB Magazine monthly.

To help us with our mission to educate and excite the next generation of surveyors and geospatial experts, please get in touch.



First poster produced November 2017

hello@getkidsintosurvey.com
www.getkidsintosurvey.com

GET KIDS INTO SURVEY

with Geo Ginger & The Last Surveyor



FIND IT...

1. The team outside the Survey HQ are mapping utilities. Why do you think it would be important to know where things like underground water pipes and power lines are?
2. Can you spot the different types of survey equipment used to detect the position of the utilities underground?
3. The blue water main has sprung a leak! Why do you think it's important to have different color pipes for each utility?
4. If drinking water pipes are color-coded blue, and electric power lines are red, can you guess what the other color pipes in grid (S-2) might be carrying?
5. Can you spot the Morsen Engineering drone? What do you think it might be surveying?
6. What is Robo Roosevelt showing the kids in grid (E-5)?
7. Can you spot Bengal Cat? He's using his Darbon Rover (a piece of technology that tells the surveyor their precise location) to do a very important job: marking utility easements. Can you find out what this means?

Our awesome sponsors, helping us to build #GetKidsIntoSurvey Globally!



#GetKidsIntoSurvey have a clear mission through fun and educational content, Ambassadors and our wider community. To find out more, visit www.getkidsint survey.com

Originally published in California Surveyor Magazine, September 2020
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Find the answers at www.getkidsintosurvey.com

mission - to educate and excite the next generation of surveyors through social media. Thank you to our Brand Sponsors, Brand Ambassadors and media. Thank you to our Brand Sponsors, Brand Ambassadors and media. Thank you to our Brand Sponsors, Brand Ambassadors and media. Thank you to our Brand Sponsors, Brand Ambassadors and media.

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The time is always right
to do what is right.

Martin Luther King, Jr.

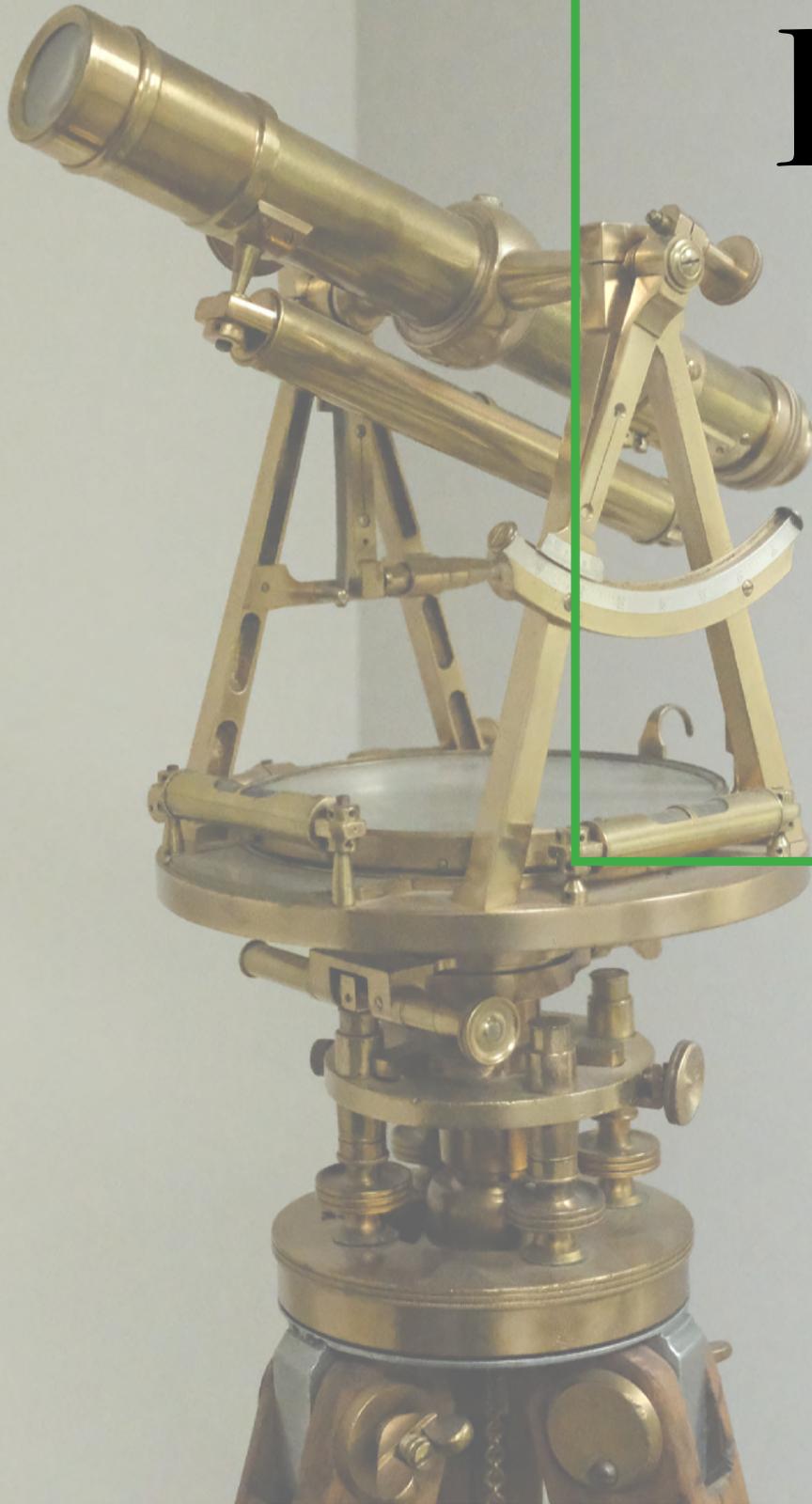


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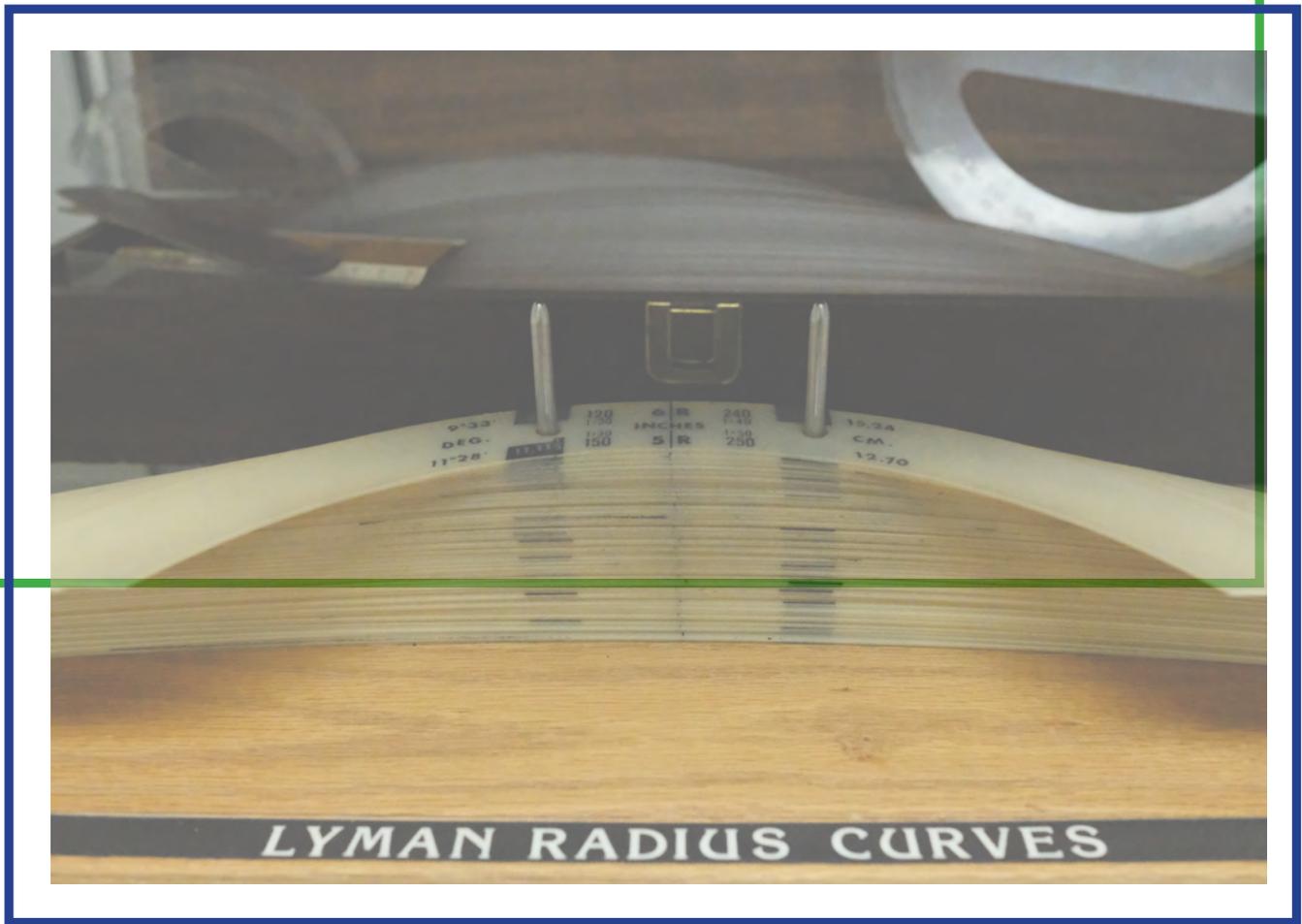
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The Florida Surveyor is the official publication of the Florida Surveying and Mapping Society, Inc. (FSMS). It is published monthly for the purpose of communicating with the professional surveying community and related professions who are members of FSMS. Our award winning publication informs members eleven months of the year of national, state, and district events and accomplishments as well as articles relevant to the surveying profession. The latest educational offerings are also included.

2020 Firm



Sustaining s Directory



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- History of Surveying - Course #7140
- Identification of Native & Non-Native Trees in Florida - Course #8132
- Ethics for the Design Professional - Course #8621
- Land Tenure & Cadastral Systems - Course # 8260
- Map Projections & Plane Coordinate Systems - Course #8261
- Mean High Water Observations & Computations - Course #8262
- Public Land Survey System - Course #7147
- Remote Sensing Applications to Surveying & Mapping - Course #7148
- Practical Geometry for Surveyors - Course #7141

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- Contracts for the Professional- Course #8412
- Elevation Certificates & the Community Rating System - Course #8256
- Introduction to Photogrammetry - Course #7968
- Writing Boundary Descriptions - Course #8362

6 SOP/L&R CEC - \$120/course

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- **Basics of Real Property, #8359, 3 CEC**
- **Digital Signatures for Surveyors, #8491, 3 CEC**
- **Elevation Certificates and the Community Rating System, #8257, 3 CEC**
- **Introduction to Photogrammetry, #7887, 3 CEC**
- **Quality Assurance/Quality Control for the Design Professional and Technical Staff, #9293, 3 CEC**
- **Writing Boundary Descriptions, #8361, 3 CEC** *2020 UPDATED COURSE

6 Hour Courses Available

- **Boundaries in Florida, #7667, 6 CEC**
- **Chapter 177, Platting (Plat Law), #6970, 6 CEC**
- **Critical Communication for Surveying & Mapping Professionals, #7228, 6 CEC**
- **Easements and Rights of Ways, #9945, 6 CEC** *2020 UPDATED COURSE
- **Ethics for the Design Professional, #8620, 6 CEC**
- **Florida Laws, #6966, 6 CEC**
- **Florida Surveying Law and Rule Changes, #9574, 6 CEC**
- **Geographic Information Systems (GIS), #7107, 6 CEC**
- **History of Surveying, #7108, 6 CEC**
- **Identification of Native and Non-Native Trees in Florida, #7874, 6 CEC**
- **Land Tenure and Cadastral Systems, #7829, 6 CEC**
- **Map Projections and Plane Coordinate Systems, #7669, 6 CEC**
- **Practical Geometry for Surveyors, #7109, 6 CEC**
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3 CEC	\$58 Per Course	x _____ = \$ _____	
<i>MAILED</i>			
6 CEC	\$125 Per Course	x _____ = \$ _____	
3 CEC	\$68 Per Course	x _____ = \$ _____	
TOTAL			\$ _____

Non-Member

<i>EMAILED</i>	Fee	Quantity	Amount
6 CEC	\$135 Per Course	x _____ = \$ _____	
3 CEC	\$78 Per Course	x _____ = \$ _____	
<i>MAILED</i>			
6 CEC	\$145 Per Course	x _____ = \$ _____	
3 CEC	\$88 Per Course	x _____ = \$ _____	
TOTAL			\$ _____

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<i>EMAILED</i>	Fee	Quantity	Amount
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3 CEC	\$60 Per Course	x _____ = \$ _____	
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STOP THE SPREAD OF GERMS

Help prevent the spread of respiratory diseases like COVID-19.

Clean and disinfect frequently touched objects and surfaces.



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DETENGA LA PROPAGACIÓN DE LOS MICROBIOS

Ayude a prevenir la propagación de enfermedades respiratorias como el COVID-19.

**Evite tocarse los ojos,
la nariz y la boca.**



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DETENGA LA PROPAGACIÓN DE LOS MICROBIOS

Ayude a prevenir la propagación de enfermedades respiratorias como el COVID-19.

**Lávese frecuentemente
las manos con agua y jabón
por al menos 20 segundos.**



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DETENGA LA PROPAGACIÓN DE LOS MICROBIOS

Ayude a prevenir la propagación de enfermedades respiratorias como el COVID-19.

**Limpie y desinfecte los
objetos y las superficies que
se tocan frecuentemente.**



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Randy Tompkins
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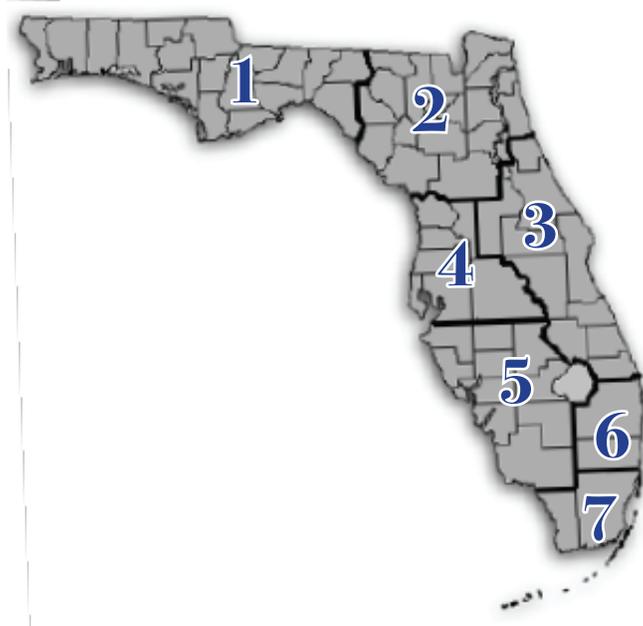
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Jeffrey Cooner
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ken.buchanan@wginc.com

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(954) 788-3400
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mverajr@mgvera.com

Lou Campanile
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lou@campanile.net

NSPS Director

Russell Hyatt
(941) 748-4693
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John P. Goggin
R.H. Jones

1960

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Russell H. DeGrove
Perry C. McGriff
Carl E. Johnson

James A. Thigpenn, III
Harold A. Schuler, Jr.
Shields E. Clark
Maurice E. Berry II
William C. Hart
Frank R. Schilling, Jr.

1970

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James M. King
Broward P. Davis
E.R. (Ed) Brownell
E.W. (Gene) Stoner
Lewis H. Kent
Robert S. Harris
Paul T. O'Hargan
William G. Wallace, Jr.
Robert W. Wigglesworth

1980

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Robert A. Bannerman
H. Bruce Durden
Buell H. Harper
Jan L. Skipper
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Stephen G. Vrabel
W. Lamar Evers

1990

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Nicholas D. Miller
Loren E. Mercer
Kent Green
Robert D. Cross
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W. Lanier Mathews, II
Jack Breed

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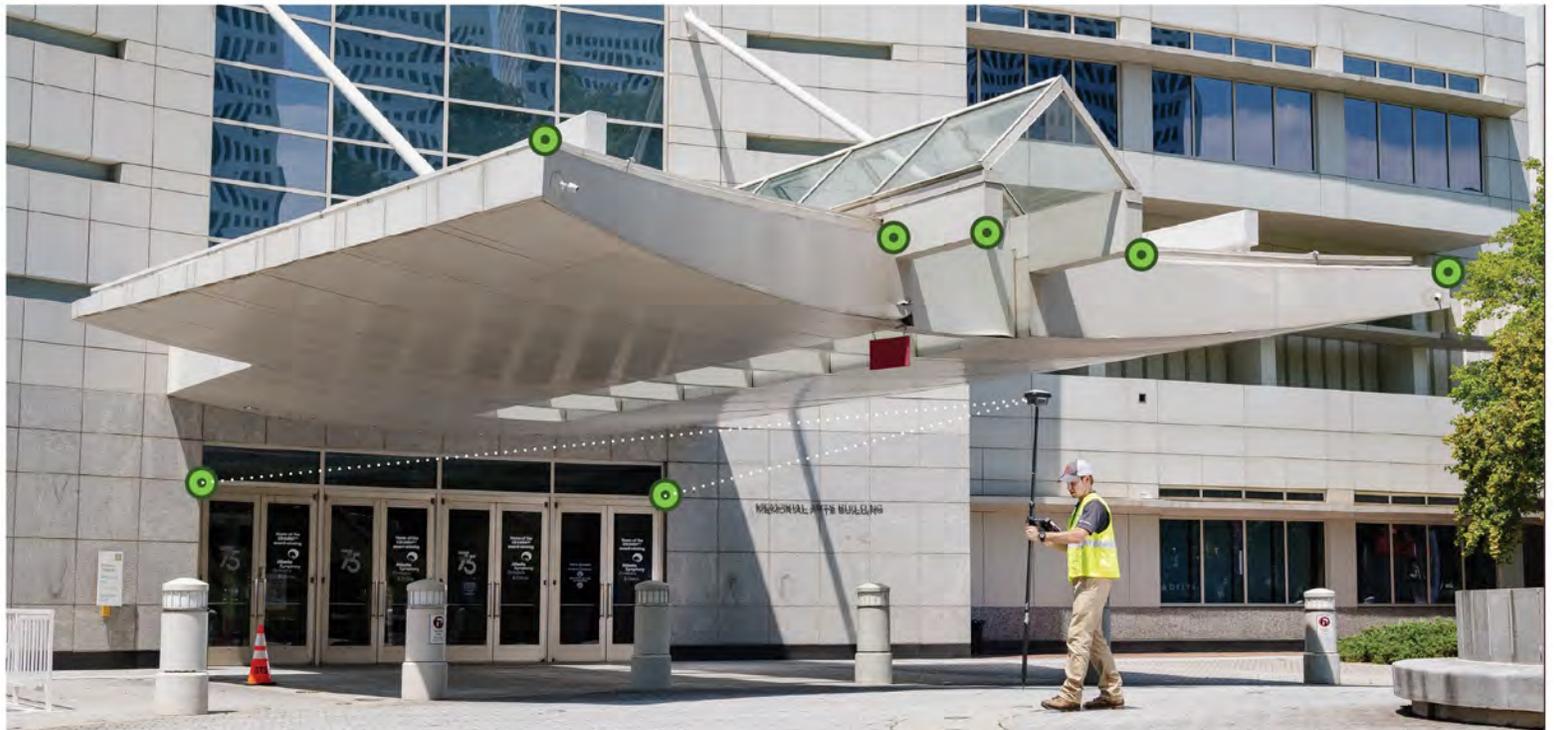


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