



“In the Works”

Striving to be the Leading Public Works Department Through Innovative Stewardship of Infrastructure and Environment

**Stanislaus County
Public Works**

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Public Works UAV Takes Flight

Submitted by Chris Brady

In 2016, the Survey Division of Public Works was awarded a technology grant by the County CEO. The grant funding was used to launch the department’s Unmanned Aerial Vehicles (UAV) Program. The survey team had identified the opportunity to increase the efficiency and safety of collecting topographic field survey data. The implementation of remote sensing through UAV or drone technology has enhanced the quality of the information being gathered for the design teams, along with allowing data to be collected in areas that had typically been inaccessible to conventional field survey collection. Most importantly, it presents a reduction in safety risks by keeping surveyors out of the roadway during data collection.



Chad Johnson-Senior Surveyor

In 2017, the survey team purchased the Department’s first ever UAV. They purchased the “eBee Plus” from SenseFly. The eBee Plus is the latest/newest fixed wing UAV available. This fixed wing aircraft has the only camera specifically designed for photogrammetric drone mapping. It is RTK/PPK capable that provides the ability to use the UAV with our existing GPS unit for more accurate ground control. The accuracy of the data obtained for this unit will allow the department to utilize the obtained data for design purposes. Several other UAV technologies that were researched could not meet similar accuracy levels as the SenseFly unit. At 59 minutes, the battery utilized on the unit has one of the longer flight times in the industry, which also allows for greater area coverage. The ability to carry multiple types of payloads gives us options to expand the uses of the UAV. The data collected can be utilized to determine roadway grading for drainage systems, proposed building and infrastructure design, and plot property boundaries. The photos from this technology can also be “stitched” together to create a fly through video for presentations.

The Survey Division has begun utilizing the UAV for aerial surveys at the Crows Landing Airfield for the Crows Landing Industrial Park Project, on Cooperstown Road for cutting and filling operations, and have begun surveying the future alignment of SR 132 West, from Dakota Avenue to Gates Road. Other planned uses for the UAV include surveying creek and river channels to help determine flow characteristics and surveying the County’s landfills to meet waste discharge requirements.

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**Articles by Public Works Writers
Published by Lynnette Henson**



Large coverage for optimal efficiency



Looking Ahead—May 2019



National Public Works Week May 19-25, 2019

APWA is proud to announce "It Starts Here" as the theme for the 2019 National Public Works Week. This theme represents the many facets of modern civilization that grow out of the efforts put forth by the public works professionals across North America. What starts here? Infrastructure starts with public works... Growth and innovation starts with public works... Mobility starts with public works... Security starts with public works... Healthy communities start with public works... The bottom line is that citizens' quality of life starts with public works. This year's exciting poster embraces a game board concept that puts into perspective the many responsibilities public works professionals take on to build, maintain, and support the infrastructure that helps our communities thrive. We invite those in public works to celebrate these efforts and the indispensable influence they have on our everyday life.

It Starts with Us!



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2019 Monthly Wellness Initiatives

We're excited to again be partnering with Doctors Medical Center for our 2019 Wellness Initiatives! There will be a different health topic each month with on-site events planned throughout the year. These initiatives are meant to bring awareness to health topics that affect many of us such as diabetes, high blood pressure, high cholesterol and a variety of other wellness topics. Following are some of the upcoming topics, plus the upcoming March event:

- APRIL - Asthma Awareness
- MAY - Back Pain Awareness
- JUNE - Annual Physical / Well Check
- JULY - Cholesterol Awareness

For more information on all our wellness initiatives, please visit www.myclubwellness.org.

May Event — Back Pain Classes

Date	Location	Room	Class Time
May 8	CSA	Cafeteria Training Room	3:30-5:00 p.m.
May 9	10th Street	Basement Training Room	9:30-11:00 a.m.
May 9	County Center III	Room 2	1:30-3:00 p.m.

Quarterly Safety Recap

Supercharge Your Tailgate Safety Meetings

Lets Make Tailgate Safety Meetings Zero Injury Meetings

- Define Scope-
- Analyze the hazards
- Develop and implement hazard controls
- Perform work within the hazard controls
- Post job debrief for process improvement



Tailgate Safety Meeting Planning Steps

- Define scope of work-**What are we doing?**
- Analyze the hazards-**Traffic, noise, trench work, chainsaws, heavy equipment, weather**
- Develop and implement hazard controls-**PPE, traffic signage, dust control**
- Perform work within hazard controls-**Think through the task and discuss as a team before starting (Mental Job Walk) Document so everyone is on the same page!**
- Post job debrief for process improvement-**How can we do it better?**



Planning is Key in Achieving Zero Injury Safety Success



Public Works Staff Updates

Introducing Collin Yerzy the new Deputy Director of Public Works Construction Administration and Roads Operations

Collin joins our team with over 10 years of public agency experience working for the City of Modesto, and over 15 years total in the construction management and engineering industry.

Early on, Collin began working for a construction management firm overseeing construction of new and remodeled public schools in Oakdale and Hughson. From there he moved to a structural engineering firm in Modesto focusing on higher education facilities and hospitals while going to the University of Pacific for Civil Engineering.

After graduation he left the structural engineering firm to begin his tenure with the City of Modesto in their Water Engineering group in the Public Works Department. After working for 4 years designing tanks, pump stations, wells and water lines, Collin transferred to Construction Administration. While there, he was promoted to Senior Civil Engineer and the Resident Engineer responsible for capital projects (streets, parks, trails, water and wastewater utilities, traffic signal projects) for the City of Modesto until accepting his new position with Stanislaus County, Public Works.

Collin is married to his wife of 12 years, Margaret, and has two boys, Zachary (5) and Christian (3). In his free time, he enjoys being outdoors, camping and fishing. He also enjoys learning new things, whether it's working on cars, wood working, or remodeling his house, there isn't much he won't try. **WELCOME!**



Welcome - Congratulations - Best Wishes

New Employee: WELCOME!

Name	Position	Start
Lynnette Henson	Confidential IV	12/26/18
Kyle Biggs	Road Maintenance Worker I	01/09/19
Nick Carey	RMW I	01/09/19
Kyle Heiny	RMW I	01/09/19
Kyle Herger	RMW I	01/09/19
Daniel Herroz	RMW I	01/09/19
Michael Brinton	PSC - Stormwater	02/20/19
Collin Yerzy	Deputy Director	03/04/19
Stacey Griffith	Senior Engineering Tech	04/01/19

Promotions: Congratulations!

Name	Promoted to	Effective
Joe Duarte	Senior RMW	09/03/18
Andrew Malizia	Senior Civil Engineer	11/10/18
Darla Moen	Staff Services Coordinator	11/10/18
Amber Gomes	Manager II	11/10/18
Denis Bazyuk	Associate Civil Engineer	02/02/19
Mark Hamblin	Senior Civil Engineer	02/16/19
Valeria Martinez	Admin Clerk III	03/18/19
Danny Mauricio	Senior Engineering Tech	03/18/19

New Baby: Best Wishes!

Employee	Baby Name	Baby Born
Matt Slusher, RMW II	Madisynn Nichole Slusher	11/05/2018
Curtis Van Laar, Heavy Equip Mechanic I	Eleanor May Van Laar	11/20/2018
Noe Valles- RMW II	Sophia Valentina Valles	12/13/2018
Michael Rodriguez-Senior Eng Tech	Jackson Wyatt Rodriguez	03/15/2019