

# **Stanislaus County Public Works**

**Annual Report  
2016**

# Changing with the Seasons

## Inside this issue:

Leadership, Mission, and Vision	3
Letter from the Director	4
Administration/Finance	6
Development Services	10
Storm Water	14
Traffic Engineering	16
Construction Engineering	17
County Surveyor's Office	22
Roads and Bridges	25
Design Engineering	29
Transit	35
Morgan Shop	39
Safety	43
Charity/Events	45
Employee Appreciation Luncheon	48
Service Awards and New Employees	50
Look into the Future	51
Board of Supervisors	52
Contacts	53



# Leadership, Mission, and Vision



**Chris Brady, PE**  
Deputy Director  
Design Engineering,  
Morgan Shop & Survey



**Matthew Machado, PE, LS**  
Public Works Director  
County Surveyor &  
Road Commissioner



**Frederic Clark, PE, LS**  
Deputy Director  
Development Services, Storm  
Water & Traffic Engineering



**David Leamon, PE**  
Deputy Director  
Road Operations &  
Construction Engineering



**Kathy Johnson**  
Assistant Director  
Finance, Transit &  
Human Resources

***M***ission: Manage and improve infrastructure through safe and efficient use of resources and assets for the benefit of our citizens.



**Randy Avants**  
Road Operations  
Manager



**Amber Gomes**  
Human Resources  
Manager



**Tate Hoffman**  
Morgan Shop  
Manager



**Eunice Lovi**  
Transit  
Manager

***V***ision: Strive to be the leading Public Works Department through innovative stewardship of infrastructure and environment.

# Letter from the Director

---



**Matt Machado, PE, LS**  
**Public Works Director, County Surveyor, and**  
**Road Commissioner**

We were focused on trust and communication in 2016 to inform the public of transportation funding woes. This messaging was an effort to give the voters of Stanislaus County a choice to make a difference in their community. This choice was a sales tax measure (self-help tax) which would generate local funds for local needs.

State and federal transportation funding has dropped in recent years, with once dependable funds becoming increasingly unreliable. Transportation's primary fund source, the gas tax, hasn't been raised in 20 years and our cars are more fuel-efficient than ever. Therefore, revenues available to operate, maintain and improve our local transportation system have not kept up with the needs of our community. Over the next decade, Stanislaus County's population will continue to grow and our senior population will almost triple. This means without new funding, Stanislaus County will have increased congestion, increasingly deteriorating roadways, and fewer and more costly transportation services.

Self-Help in Stanislaus County would:

- Generate approximately \$38 million per year based on ½ cent sales tax for an estimated total of \$958 million over the course of the measure's lifetime;
- Be used for LOCAL projects and LOCAL priorities;
- Allow Stanislaus County to compete for state and federal grants and leverage funds, thereby increasing revenues;
- Deliver an Expenditure Plan (Plan) with a specific list of projects and programs; and,
- Include an Oversight Committee to ensure projects and programs in the Plan are actually funded and/or completed.

On November 8, 2016, the residents of Stanislaus County voted overwhelmingly to approve Measure L and institute a special 25 year, one-half cent sales tax increase designated for the sole purpose of local transportation improvement projects and programs. The ballot measure included a Plan developed by the Stanislaus Council of Government. As a result of extensive public outreach asking residents to identify their priorities for future transportation programs and projects, the Plan provisions committed 50% of the new tax exclusively for repair and maintenance of local streets and roads. The Plan and tax increase will be implemented on April 1, 2017, with anticipated revenues for road maintenance of \$1.3 million during Fiscal Year 2016-2017 to Stanislaus County.

#

Over the course of the 25 year Plan, scheduled road maintenance includes 3,085 miles of chip seal, 845 miles of slurry seal, 325 miles of asphalt overlay, and 50 miles of reconstruction will occur throughout the County. During the first year of the Plan, 32 miles of slurry seal and 83 miles of chip seal will be performed.

# Letter from the Director (cont'd)

***“We were focused on trust and communication in 2016.”***

Using the optimal weather conditions which occur during the spring and summer months, the first project identified for the 2017 road maintenance season is the slurry sealing of about 80% of Salida’s streets. This project will be put out to bid in the winter of 2016 and awarded in early spring of 2017, with construction anticipated to occur during July of 2017. Preliminary engineering estimates of construction costs are approximately \$1.2 million, with construction oversight costs of approximately \$100,000. To deliver this project as promised in the tax measure, Public Works will amend its operations budget so that the construction contract can be awarded and work can begin. The April-June 2017 roadway maintenance tax revenue collections are estimated to be \$1.3 million and expected to be distributed in late August 2017.

The second project identified for 2017 is the application of chip seal maintenance during the months of July, August, and September 2017 to various sites within the County. These areas include rural roads south and west of Oakdale, east of Turlock, and south of Riverbank. Advanced preparation for the project requires the ordering of the chip during March to allow lead time for crushing and delivery, and filling the vacant six road maintenance worker positions in early April to assure trained workers are available.

Additionally, design has been started for two sidewalk projects. The first project will construct sidewalks in the area of Hanshaw Middle School and Bret Harte Elementary school, along Butte Avenue and Glenn Avenue. The second project will construct sidewalks in the area of Kirschen Elementary School and Robertson Road Elementary School, along Robertson Road and south to the new soccer sports field.

In the year 2017 we will see some great projects kick off and be built, yet with only a partial year of funding 2018 will be even a bigger year of project delivery. It is anticipated that in the year 2018 Public Works will chip seal 125 miles, slurry seal 35 miles, and asphalt overlay 25 miles. All this brought to you by Measure L. Thank you voters of Stanislaus County!

Respectfully,



Matt Machado, PE, LS

**Stanislaus County Election Results  
 Presidential General Election  
 Tuesday, November 8, 2016  
 Measure L, Vote for 1  
 (With 372 of 372 Precincts Counted)**

	Total Votes	%	Election Day	Mail Precinct	Vote by Mail
<b>Yes</b>	121,527	71.95	31,117	3,586	86,824
<b>No</b>	47,372	28.05	13,016	1,603	32,753
<b>Total</b>	168,899		44,133	5,189	119,577

Election Results can be found at:  
[https:// www.stanvote.com/past-results/11-08-2016-results.htm](https://www.stanvote.com/past-results/11-08-2016-results.htm)

# Administration/Finance

The Administration division provides divisional support in all areas of the Public Works Department with more focus in the areas of clerical and finance. Clerical support is provided in the areas of maintaining and organizing lead staff, human resources, training, coordinating department activities, and other ongoing daily needs necessary for the smooth running of the department. Financial support is provided by the way of budgeting, payroll processing, accounts payables, and accounts receivables.



Administration from left to right: Deborah Hawkins, Keimi Espinoza, and Sylvia Jones.

## Administration

The Administration division provides clerical support to all Public Works' divisions. Their role includes personnel records, training records maintenance, County policy compliance, safety program strategic planning, first point of contact by greeting lobby customers and answering phones, processing mail, and a variety of other miscellaneous, but highly necessary tasks that ensure the department operates smoothly. These individuals also scheduled and coordinated meetings for department staff and external customers, conducted recruitments and processed new employees' packets, maintained office supplies inventory, coordinated janitorial and building maintenance services, logged and followed up on 1,525 customer comments and/or concerns through Stanislaus County's Customer Response Management (CRM) System. Other duties include publishing and distributing the department's quarterly newsletters, editing and distributing the department's annual reports, and posting traffic delay notifications and event announcements on the Stanislaus County Public Works Facebook Page.

**"logged and followed up on 1,525 customer comments and/or concerns"**

http://www.ultraupdates.com/2015/05/inspirational-teamwork-quotes-for-work

# Administration/Finance (cont'd)

## Finance

The Finance division is responsible for accounting, budgeting, contracting, lighting districts, accounts payable, accounts receivable, purchasing, and payroll for all divisions. The employees in Finance ensure that the department is following all County financial policies and safeguarding public funds.

The Finance division has five full-time staff overseeing Public Works estimated \$68 million dollar Fiscal Year 2016-2017 budget. They perform the day to day functions that keep the department running smoothly.

In Fiscal Year 2016-2017, there were over 2,392 time cards (1,196 paychecks) for the Roads division, and approximately 2,652 timecards 1,326 (paychecks) from Administration, Engineering, Morgan Shop, and Transit processed for payment.

Also, there were 132 street light repair requests in the Customer Response Management (CRM) System that were taken care of.

The Finance division processed over 5,000 invoices for the various divisions of Public Works.

*The Finance division of Public Works collected approximately \$70,756,614 dollars worth of revenue in 2016*



Finance Team left to right: Elena Locarnini, Sharon Andrews, Julie Serrano, Olivia Tanner, and Bianca Rodriguez



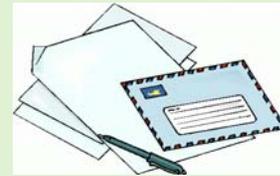
Monthly Administration/Finance Staff Meeting

# Administration/Finance (cont'd)



Elena Locarnini, Accountant I

*Nancy W. called to report some potholes on Woodland Avenue. She then wrote a letter stating that she was "SO PLEASED AND IMPRESSED," and that our "prompt attention is appreciated."*



*We appreciate our customers.*

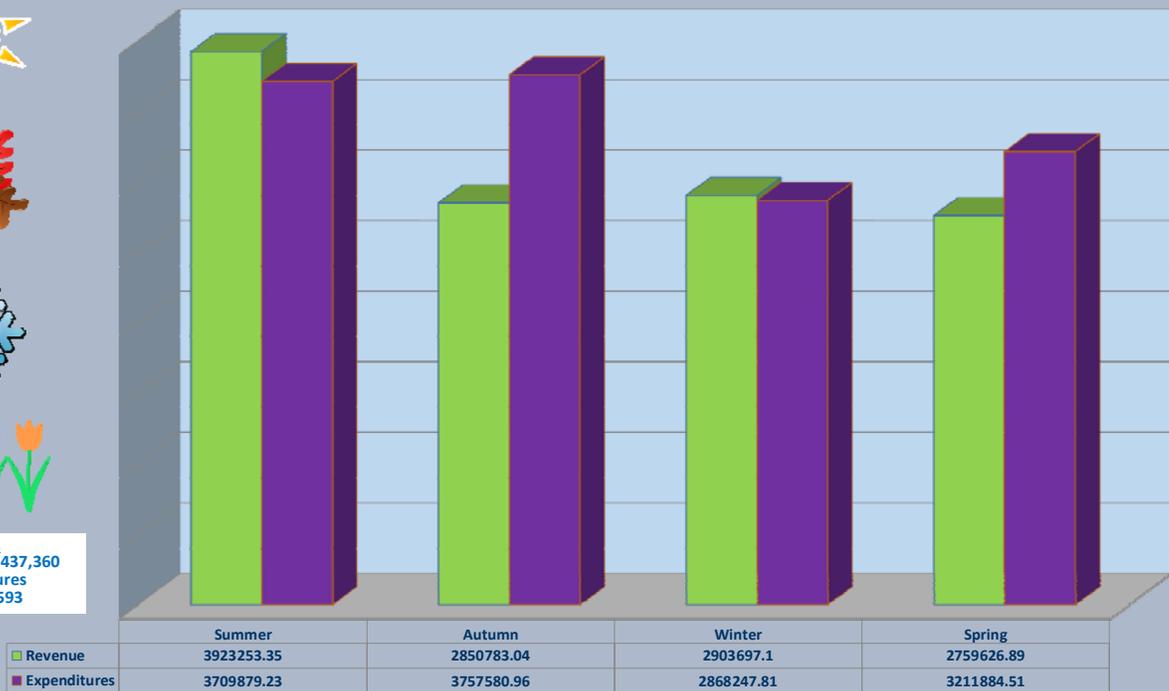
Seasonal Tidbit: Summer is the busiest time of year for the Finance team as they close up prior year and open up the new year. Purchase orders have to be opened so that there is no disruption to services provided to the public. The fiscal year begins in July and ends in June.



Roads Revenue and Expenditures by Season

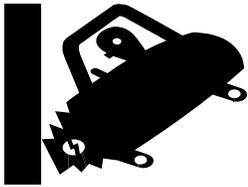


Totals  
Revenue \$ 12,437,360  
Expenditures \$13,547,593



Graph submitted by Julie Serrano, Road Accountant III for Public Works and Finance Supervisor.

# Administration/Finance (cont'd)



## Collisions & Damage Recovery

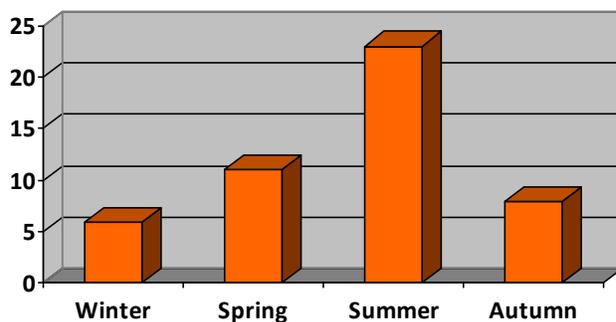
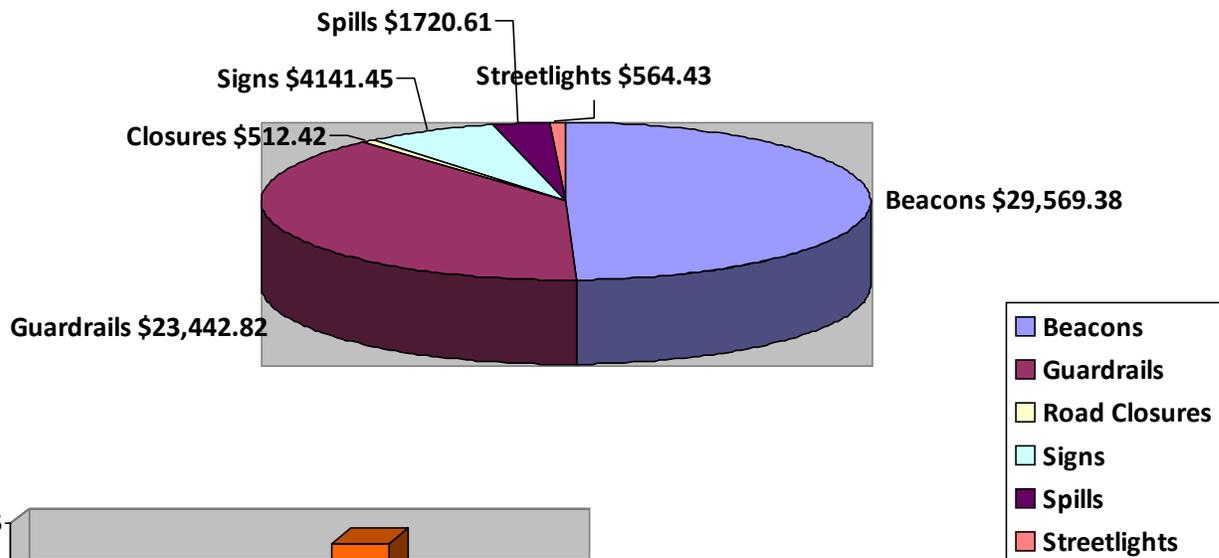
Public Works Finance receives an average of 131 California Highway Patrol (CHP) collision reports every month that happen within the county areas, not including state routes or freeways. The finance accounting technician reviews them for possible recovery for damages caused to Public Works property. Most don't involve Public Works, but in Fiscal Year 2015-2016, 48 of them did – which is actually a 22.6% decrease from Fiscal Year 2012-2013. Only five of them were uninsured, and those go directly to the County Revenue Recovery department.



Sharon Andrews, Account Clerk III

The others are billed to the insurance company provided in the CHP report. Of the 31 that were paid, the breakdown is as follows: 3 beacons, 7 guardrails, 3 road closures, 15 signs, 1 spill, and 1 streetlight totaling **\$60,023.71 in damage claims recovered**. The pie chart below shows the amounts recovered by type of incident.

Summer seems to be when most collisions occur, many during the daytime hours. Spring is next with its rainy weather, then autumn with the holiday celebrations, and winter seems to be when people drive most carefully.



# of collisions

# Development Services

## ENCROACHMENT PERMITS:

The Encroachment Permits section of Development Services issues permits for construction activities in all County right-of-ways. Activities related to issuing encroachment permits includes, but are not limited to: advising clients of permit requirements; reviewing plans related to County standards conformance; ensuring public safety; coordinating traffic control requirements to ensure public safety; performing field inspections; writing maintenance agreements where required; and much more.

The Encroachment Permit staff perform a variety of job functions, including, but not limited to the following: over the counter customer service; plan reviews; permit fee determination; lane and road closures; field inspections; maintenance agreements; and our Storm Water Quality Assurance & Enforcement Program for the National Pollution Discharge Elimination Detection System (NPDES) Construction General Permit and MS4 Phase II Permit requirements.



**Left to right back: Frederic Clark, Paul Saini, Rich Brown, and Angie Halverson**  
**Left to right front: Steve Song, Les Stachura, and Ben Kozlow**

During the 2016 calendar year, 420 encroachment permits were issued. The total amount collected for encroachment permits during this period was \$327,625.25.

## TRANSPORTATION PERMITS:

The Transportation Permit division of Development Services issues annual and daily transportation permits. The purpose of the annual blanket and daily transportation permits enables the County to regulate movement of oversized loads over County bridges and roads in order to ensure vehicle safety and to protect public bridges and roads.

The Transportation Permit division staff also provides a wide range of services, some of which are:

- Issues annual and daily transportation permits for legally oversized vehicles and trailer loads moving across County roads and bridges;
- Performs field inspection duties in support of transportation permit issuances;
- Works with other jurisdictions and agencies (including the California Highway Patrol) for issuance of ultra-heavy loads;
- Provides over-the-counter customer support and provides general information related to the transportation permit requirements;
- Updates and maintains the County Bridge Map and Addendums to include current bridge ratings and provide online web-based Geographic Information Systems map bridge information; and,
- Coordinates with transportation permitting companies in setting up and maintaining trust accounts.

**In 2016, 420 encroachment permits were issued at a cost of approximately \$327,625**

Issuing permits assures that oversized loads are moved over bridges and roads that can handle the weight and dimension requirements for the load, and that also addresses safety considerations unique to the assigned route. In addition to issuing daily transportation permits, our staff also issues annual blanket transportation permits along routes over County bridges and roads that can handle Caltrans' rated load specified on the permit.

# Development Services (cont'd)

During the 2016 calendar year, 798 daily transportation and 340 annual transportation permits were issued. The total amount collected for transportation permits during this period was \$12,768 for daily transportation permits, and \$29,880 for annual transportation permits.

## PIPELINE MAINTENANCE AGREEMENTS:

The purpose of a Pipeline Maintenance Agreement (PMA) is to enable the County to monitor work or activities performed within County road right-of-ways by private parties. A PMA will also require an encroachment permit.

The agreement states that the owner of the pipeline will be responsible for any damage that may occur to the County road that the pipeline runs under if the pipeline fails. The agreement holds the owner of the pipeline responsible in perpetuity for repair of the roadway in the event of any failure of the roadway due to failure of the pipeline. The PMA is a recorded document and is transferred to any new owners of the property stated on the agreement, and they become responsible for maintenance and repair of the pipeline as if they were the original pipeline owner(s).

Issuing the PMA assures that the work or activities performed in the encroachment area will be done in accordance to the latest Public Works Standard Designs and Specifications, in accordance to the requirements of the Stanislaus County Code, and to ensure that the cost of any repair or damage to County right-of-way is placed upon the owner of the pipeline.

During the 2016 calendar year, 17 PMA were issued, and the total amount collected was \$4,845.

## DEVELOPMENT PERMITS:

The staff in the Land Development section protects the County's interest by ensuring that the development and design of public improvements comply with Stanislaus County Standards and all applicable laws to provide for the greatest benefits to the public.

The Land Development section of Public Works offers the following services:

- Provides customer assistance for discretionary and non-discretionary development permits;
- Reviews improvement plans and drainage calculations for residential, commercial, and industrial projects;
- Reviews commercial, residential and industrial building permits, and grading permits;
- Supports the Building Permits Division with questions regarding over the counter issues;
- Reviews road classifications and coordinates Irrevocable Offers of Dedications (IOD) for ultimate rights-of-way;
- Writes Conditions of Approval for discretionary development approval;

**Permits Issued 2016 vs 2015**

	2015		2016		Difference	
	#	Dollars	#	Dollars	#	Dollars
Encroachment Permits	388	\$326,165.66	420	\$327,625.25	8%	\$1,459.59
Annual Transportation Permits	312	\$27,180.00	340	\$29,880.00	9%	\$2,700.00
Daily Transportation Permits	953	\$15,248.00	798	\$12,768.00	-16%	-\$2,480.00
Pipeline Maintenance Agreements	21	\$2,280.00	17	\$4,845.00	-19%	\$2,565.00

# Development Services (cont'd)

- Reviews the National Pollution Discharge Elimination Detection System (NPDES) storm water requirements;
- Participates in Planning Commission meetings;
- Participates in the Environment Review Committee meetings;
- Performs field services including but not limited to data gathering, site reviews, and verifies that right-of-way is sufficient for future road classification;
- Verifies that subdivision plans, parcel maps, and improvement plans meet the Conditions of Approval approved by the County Planning Commission;
- Indexes records, such as improvement plans, subdivision improvement plans, financial guarantees, and street improvement agreements;
- Updates County Ordinances relating to land development services;
- Building Permit related plan check for compliance to Public Works standards in the area of grading and the new expanded storm drainage design requirements; and,
- Off-site improvement plan reviews for road work (street, curb, gutter, and sidewalk), storm drainage, and water and sewer service to ensure compliance to current County standards.



Sante Fe Bridge –Outfall Inspections

During the 2016 calendar year, the following number of improvement plans/permits were reviewed and completed:

- 2 Off-site improvement plan reviews;
- 353 Building Permit Plan reviews and inspections (306 of these permits were in the County's NPDES regulatory 'Red Zone' and required enhanced Erosion and Sediment Control Plan (ESCP) review and inspections);
- 20 Grading permits (seven of these permits were in the County's NPDES regulatory 'Red Zone' and required enhanced ESCP review and inspections);
- 4 Parcel map applications;
- 7 Subdivision applications;
- 7 Staff approvals for Planning;
- 5 Use permits; and,
- 3 Rezone applications.

## GRADING PERMITS:

The purpose of regulating grading activities is to safeguard the health, safety, property, and public welfare by regulating grading, excavation, and earthwork construction activities in the unincorporated areas of Stanislaus County. Grading is regulated because it can cause serious problems when not done properly or become a public nuisance. Newly exposed soil subjected to the elements (i.e. rainstorms or windstorms) can erode easily, moving from areas where you want the soil to where you don't.

The Development Services division of Public Works reviews construction site plans and design calculations for grading permit issuance. Staff coordinates with constituents on issues that need to be resolved and communicates county standards and regulations to the clients and engineering company representatives.

Within the jurisdiction of grading review and permit issuance, the technician will encounter situations requiring site visits and conferences with constituents across a broad spectrum of issues and types of construction; from irrigation, drainages, flood protection, and water usage issues to un-permitted grading of land that results in public nuisance issues.

# Development Services (cont'd)

Building construction is regulated by the California Building Standards Commissions. Because the County does not currently have a Grading Ordinance, Public Works Development Service Division is currently using Appendix J (Grading) of the California Building Code (Title 24 Part 2, Volume 1 & 2) of the California Green Building Standards Code (California Code of Regulations Title 24, Part 11) to issue and inspect grading permits.



## Permits Issued in 2016 Include:

**Rezone:**  
*Findlay Automotive Audi Dealership  
on Pelandale and McHenry*

**Use Permit:**  
*El Paraiso Nightclub  
on Crows Landing and Olivero*

**Staff Approval:**  
*Private pediatric office on Spyras Way*

Grading activities in the County are reviewed in conformance to the planning regulations that are governed by the County's General Plan, Specific Plans, Land Use Plan, Zoning Plan, Subdivision Map Act, and the Stanislaus County Code.

During the 2016 calendar year, approximately 20 grading permit applications were issued and scheduled for inspection. The total amount collected for grading permits during this period was approximately \$31,040.23.

## DEVELOPMENT SERVICES & TRASH AMENDMENT POLICY

On April 7, 2015, the State Water Resources Control Board (State Water Board) adopted a statewide Trash Provision program to address the pervasive impacts trash has on the beneficial uses of our surface waters. Throughout the State, trash is typically generated on land and transported to surface water, predominantly through MS4 discharges. These discharges from Phase II MS4s are regulated through a statewide general permit (Phase II MS4 Permit) 2 pursuant to section 402(p) of the Federal Clean Water Act.

The Trash Provision requires Phase II MS4 permittees with regulatory authority over Priority Land Uses to select a method of compliance with the trash prohibition. The State Water Board requires our County to determine and report their selection of either the following Track 1 or Track 2 compliance methods:

- Track 1: Install, operate, and maintain Full Capture Systems for the storm drain network that capture runoff from the Priority Land Uses in their jurisdiction.
- Track 2: Install, operate, and maintain any combination of Full Capture Systems, Multi-Benefit Projects, other Treatment Controls, and/or Institutional Controls within either the jurisdiction of the MS4 permittee or the jurisdiction of the MS4 permittee and contiguous MS4 permittees.

Development Services staff is working closely with our Storm Water Manager in determining whether Track 1 or Track 2 will be recommended to the State Water Board. Our decision will be made no later than September 1, 2017 – so stay tuned for an update.



For more information and facts about this Trash Provision program, please visit:  
[http://www.waterboards.ca.gov/publications\\_forms/publications/factsheets/docs/trash\\_fs.pdf](http://www.waterboards.ca.gov/publications_forms/publications/factsheets/docs/trash_fs.pdf)

# Storm Water

## 2016 ACTIVITIES & ACCOMPLISHMENTS

### *WINTER*



In Stanislaus County, the winter months of January through March are the time of year that we receive the most rainfall. The Public Works Storm Water division staff increased their inspections of construction and industrial sites during this season in an effort to protect the County's storm drain system and local waterways from polluted storm water runoff.

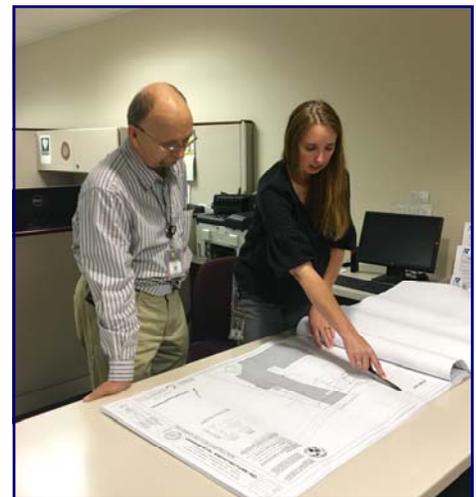
A Spill Response Plan was written and implemented, which included staff procedural training. The Plan provides a framework for Public Works staff to respond to spills and illicit discharges that occur in the public right-of-way or that flow to the County's storm drain system.

An Enforcement Response Plan was completed and implemented, detailing the County's response to violations of the Storm Water Code. The Plan describes how the County will address repeat offenders and continuing violations by utilizing progressively stricter enforcement actions, as needed, to achieve compliance.

### *SPRING*

Springtime in the Storm Water division is staff training season. The State of California requires County employees to follow the same laws as the private sector when constructing roads or bridges, and conducting outdoor maintenance activities.

A Best Management Practices Effectiveness Program was developed which evaluated the various outdoor work activities of County staff for their potential to pollute storm water runoff. The program identifies Best Management Practices for each outdoor work activity. The County conducts quarterly inspections to ensure that staff are following the appropriate procedures.



**Ben Kozlow and Angie Halverson  
reviewing storm water plans**

# Storm Water (cont'd)



A Storm Water Training Day was held on May 19th in partnership with several other municipalities. The training was attended by County staff, local businesses, and the construction trades and focused on methods to prevent pollution of storm water runoff.

The County's Storm water website was updated in June, adding current regulatory information and providing links to public participation opportunities with our partners: The Tuolumne River Trust, Operation 9 to 99, and the Dry Creek Coalition.

## ***AUTUMN***

Autumn marks the beginning of storm water season on October 1<sup>st</sup>. A Self-Certification Program for maintaining storm water treatment devices on private property was created and letters were sent to business owners requiring them to report the cleaning and maintenance of their treatment devices. The Self Certification Program saves the County valuable staff inspection time and resources that would otherwise be spent visiting and documenting the condition of each property.

### **2016 Storm Water Timeline**

#### **Winter**

- Rainfall
- Spill Response Plan written
- Enforcement Response Plan completed

#### **Spring**

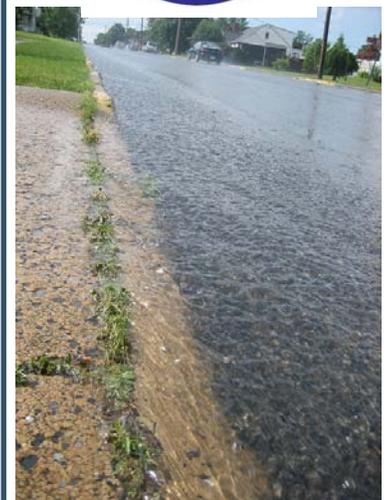
- Best Management Practices Effective Program developed
- Storm Water Training Day, May 19th
- Storm water website updated

#### **Summer**

- Annual report submitted to State Water Board
- Program Effectiveness Assessment and Improvement Plan Completed
- Dry Weather Outfall sampling

#### **Autumn**

- Beginning of storm water season, October 1st
- Self-Certification Program created

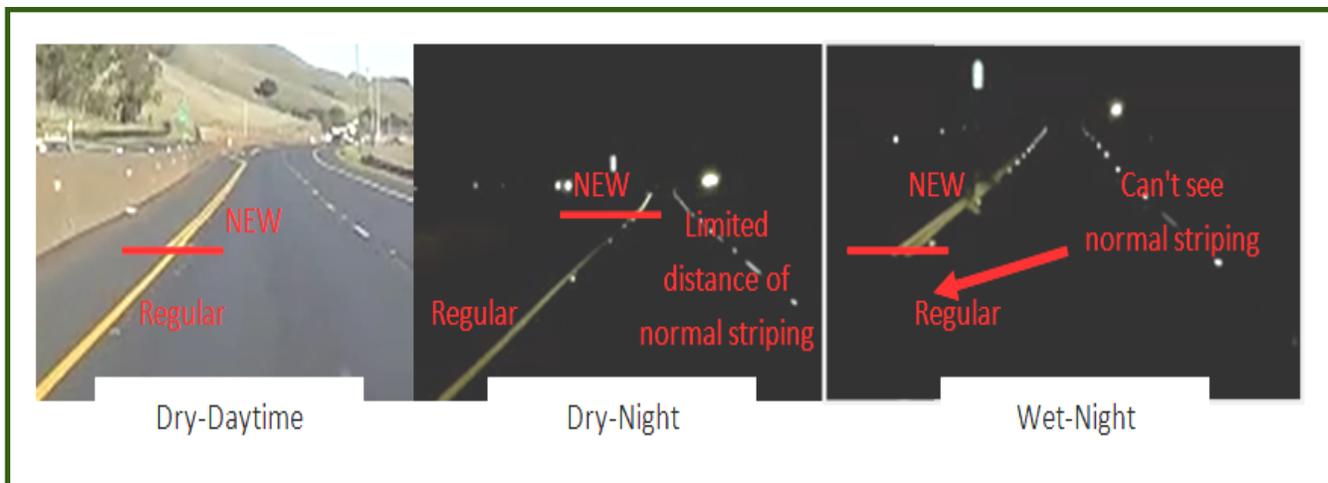


# Traffic Engineering

The Traffic Engineering division had a good year in 2016. We were fully staffed to our previous levels for 2016 and were able to restart our data collection program. In the previous year, 2015, we collected approximately 165 segment counts. In 2016, we collected 434, an increase of 163%. In the coming year, we hope to develop new maintenance and modernization programs for our existing infrastructure including signals, striping, and signs.

**Springing Forward:** The County fully operates about 20 traffic signals (and about another 30 that are shared with other cities). Last year, we received funding through the Congestion Mitigation & Air Quality (CMAQ) funding program to upgrade the signal controllers and add communications to some of our most important corridors including Geer Road/Albers Road, Claribel Road, Carpenter Road, and Hatch Road. This will allow us to gather important metrics and communicate between signals and the office. With this network, we will be able to automate turn count collection and analyze traffic in real time allowing us to monitor performance and adjust timings throughout the year.

**Rainy Season:** Traffic Engineering successfully applied for two grants through the Highway Safety Improvement Program (HSIP). The County will receive \$5.47 million in funding to upgrade centerline and edge line striping to a higher performance striping material. The new material should last five to seven years and is engineered to outperform typical striping in dark and wet scenarios. The County has installed this striping on previous overlay projects, and we have been very happy with the performance and lifecycle of the product. This product will be applied to almost 200 miles of rural roadways in the County concentrating on roads with curves, hills, and our highest traveled roadways.



**High performance striping material versus regular striping material**

**Seasonal Tidbit:** “Driving on a rainy day is more dangerous than driving on a snowy one. When the rain starts to fall and pavement is wet, your likelihood of a crash is higher than during wintry conditions like snow, sleet and ice, according to [data](#) from the National Highway Traffic Safety Administration (NHTSA).”

<https://www.edmunds.com/car-safety/tips-and-techniques-for-driving-in-rain.html>



# Construction Engineering

The Construction Engineering division manages all construction related elements of the Public Works Department's capital improvement projects which includes roadway, utility, and bridge improvements. Through contract administration and construction inspection, it is the goal of the division to ensure that each project is built according to the plans, specifications, on schedule, and within budget.

The division successfully delivered four projects throughout the year, totaling \$19.8 million of improvements. With an inspection staff of only four individuals, it was imperative for the division to utilize on-call construction management services to deliver all the projects this year. Harris & Associates successfully supplemented the division's staff, managing the daily inspection and administration duties for the shop project.

An exciting project for 2016 is the beginning of the Morgan Road Heavy Equipment Shop/Administration Building project which involves 9.5 acres of the 15-acre site and consists of new buildings to replace the existing maintenance shop, sign shop, carpenter shop, trailers, and administration building; a mixture of permeable paver and asphalt parking lots; utility services from existing adjacent sources; and improvements to the adjacent frontage of Morgan Road. The existing improvements all date from 1958 and were run down and dilapidated. This is a \$15.7 million project which is anticipated to be complete in 2017.



**David Leamon**  
Deputy Director  
Construction Engineering



**Linda Allsop**  
Staff Services Analyst



**Mark Hamblin**  
Associate Civil Engineer



**Peter Song**  
Assistant Engineer



**Bryan Voyles**  
Assistant Engineer



**Barlow Taylor**  
Senior Engineering Technician

# Construction Engineering (cont'd)

## Regional Surface Transportation Program "J":

Improvements	Roadway Reconstruction
Description	<ul style="list-style-type: none"> <li>Grind and overlay Emerald Avenue between Kansas Avenue and Woodland Avenue</li> <li>Full depth reconstruction of Sperry Avenue at intersection of Sperry Avenue and Rogers Road</li> <li>Full depth reclamation of Baldwin Road between Zacharias Road and Patterson city limits</li> </ul>
Bid Amount	\$1,065,275.29
Start Date	June 13, 2016
Estimated Completion Date	February 10, 2017 (Delayed due to public semi hitting traffic signal pole thus requiring signal pole replacement)
Contractor	Bay Cities Paving and Grading
Resident Engineer/Construction Inspector	Mark Hamblin



**Emerald Avenue between Woodland Avenue and Kansas Avenue**



**Baldwin Road reclamation**

# Construction Engineering (cont'd)



**Claribel Road Full Depth Reclamation Milling**

## Regional Surface Transportation Program “K”:

Improvements	Roadway Reconstruction
Description	<ul style="list-style-type: none"> <li>• Conform grind and overlay on Claribel Road, for approximately 400' just east of Albers Road and full depth reclamation for approximately 300' just west of Oakdale-Waterford Highway</li> <li>• Full depth reconstruction of South Faith Home Road between West Main Street and Levine Road</li> <li>• Full depth reclamation of Milnes Road between Albers Road and Oakdale-Waterford Highway</li> </ul>
Bid Amount	\$1,496,000,000
Start Date	May 31, 2016
Estimated Completion Date	September 8, 2016
Contractor	George Reed, Inc.
Resident Engineer/Construction Inspector	Barlow Taylor

# Construction Engineering (cont'd)

## HATCH ROAD AT SANTA VE AVENUE INTERSECTION WIDENING PHASE 3:

Improvements	Roadway Reconstruction
Description	Roadway widening and reconstruction including installation of concrete islands, traffic signals, and asphalt concrete overlay
Bid Amount	\$1,449,515
Start Date	July 11, 2016
Estimated Completion Date	March 31, 2017 (Delayed due to Burlington Northern Santa Fe Railroad improvements at the intersection)
Contractor	George Reed, Inc.
Resident Engineer/Construction Inspector	Peter Song



Milnes Road after paving and shoulder backing awaiting striping shoulder



Night construction to minimize impacts on the traveling public



Temporary striping on Santa Fe Avenue

# Construction Engineering (cont'd)

## PUBLIC WORKS SHOP AND ADMINISTRATION BUILDINGS



Pictured above are the building pads being graded. Some rough weather slowed this process down quite a bit since soils were saturated.



Above, the footings for the Administration building have been poured.

<b>Improvements</b>	<b>New shop and administration building to replace 60 year old substandard buildings</b>
Bid Amount	\$14,739,903.73
Start Date	February 23, 2016
Estimated Completion Date	September 2017
Contractor	Diede Construction
Resident Engineer/Construction Inspector	Bryan Voyles

Overall, the project is going well. It is slightly behind schedule, but working with the contractor, we will try to make up some time.

**A fine example of changing with the seasons:** Construction was partially delayed due to inclement weather; therefore, Public Works is collaborating with the contractor to avoid further delay.



# County Surveyor's Office

## SURVEYING DEPARTMENT

The Survey section of the Engineering division provides the following services:

- Field work - Includes monument preservation, data gathering for topography surveys, right-of-way establishment/staking, construction staking;
- Indexing - Benchmarks, Certificates of Correction, Corner Records, Deeds and Easements, Record of Surveys, Parcel Maps, and Subdivision Maps;
- Map checking;
- Legal description writing, checking, and recording;
- Drafting services;
- Road Abandonments;
- Certificates of Compliance; and,
- Review of all lot line adjustments.



Survey team at 2016 California Land Surveyors Association (CLSA) Conference pictured from left to right: Chad Johnson, Russell "Scotty" Atchinson, Larry Fontana, and Rich Brown.

In addition, the survey team is a public resource. The County Surveyor's Office staff provides customer assistance to the public on a continuous basis.

## 2016 Accomplishments

### OFFICE



- Filed 43 Corner Records;
- Processed two Road Abandonments;
- Checked and recorded eight Subdivision and Parcel Maps;
- Verified 30 lot line adjustment applications;
- Checked and recorded 43 Records of Survey;
- Processed 11 Certificates of Compliance;
- Wrote/verified/recorded 44 easement and illegal offer of dedication descriptions; and,
- Continue to electronically archive survey records.

**Seasonal Tidbit:** Did you know that the County Surveyor's Office does the majority of their field work in the spring and summer? Surveyors favor the weather and light conditions during these times of year when conducting research.



# County Surveyor's Office (cont'd)

---

## FIELD

- Construction staking for new Administration and Shop buildings;
- Sperry Road construction;
- Kansas/Emerald Avenues construction;
- Monte Vista Avenue at Lester Road sidewalk project;
- Regional Surface Transportation Program "K" pavement improvement Claribel Avenue;
- Parklawn Record of Survey;
- Various right-of-way staking; and,
- Expedition to Mount Boardman to provide Stake Plane Coordinates (SPC) for our data layers.

## What's New

- We tried lidar/laser scanning for the first time using a Faro scanner. The scanner provides a large amount of data and keeps the surveyor safe.
- Tom Price (consultant) came on board to help us until we were able to fill our open position.
- We're researching an Unmanned Aerial System (UAS) to provide improved survey services and develop new projects.
- We signed Master Agreements with some local surveying/engineering companies. This will provide us with back-up for some of the additional survey that will be generated by our increased road improvement projects.

## In Memory Of:

**Russell "Scotty" Atchinson**  
**October 30, 1957 – June 23, 2016**  
**Our friend and colleague**

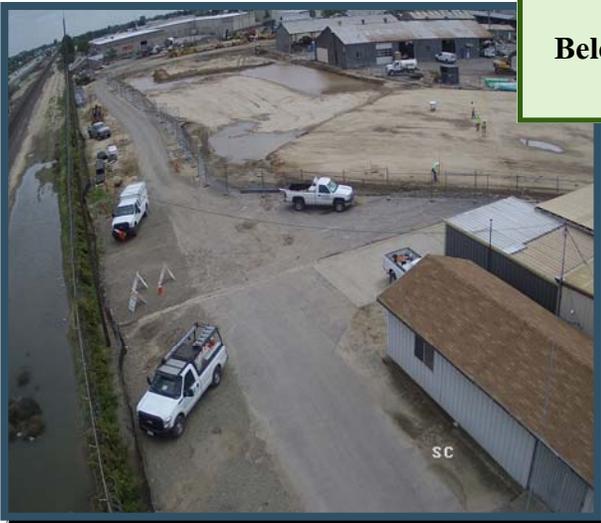


# County Surveyor's Office (cont'd)

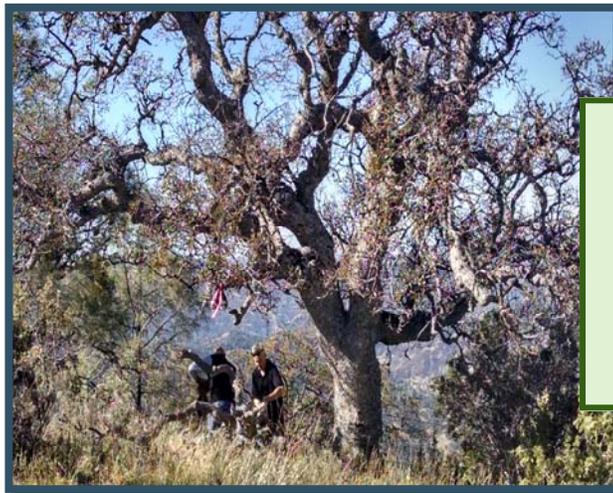


**Above: Survey team staking administration building**

**Below: Staking grade**



These bottom grade pictures look identical, but were taken at different times. Can you find at least three differences?



**Chad Johnson at Mount Boardman**

# Roads and Bridges

## ROADS & BRIDGES

### Seasonal Tidbit:

**“As winter approaches, the crews quite often find themselves performing emergency road closures.”**



There were many road maintenance improvements in 2015 including increases in routine maintenance production. However, in 2016 with continued budget cuts the Roads division continued their efforts in providing safe roads, but lacked in some areas of production. This was due to many unfilled road maintenance worker positions including a reduced materials budget as a result of reduced revenue. The chip seal program was put on hold for the second year and all services provided by our Roads division were affected. However, the road crews still continued to make improvements in several areas.

The good news; in November our County residents approved Measure “L.” The voters approved a ½ cent sales tax, which will enable public works to fill previously vacant positions and provide funding for a scheduled chip seal resurface program in addition to contracted road resurfacing.

Much of the work the Road & Bridge division performs is weather related. Some of the work is actually dictated by inclement weather. Most paving and chip seal resurfacing is performed in the spring through autumn. Also, the traffic crew performs all the paint and striping during this time. Much of the bridge maintenance and well installations are made in the summer months also. As winter approaches, the crews quite often find themselves performing emergency road closures due to roadway flooding, downed trees and power lines. Winter also exacerbates the pothole problems which cannot be ignored, even if the asphalt plants are not running. Storm water pumps require more attention as well as creeks, rivers and drainage basins throughout the County during this time of year.

## General Maintenance

In the summer of 2016 the general maintenance crew concentrated on “soft spot” repairs on roadways with poor or inadequate sub-soil that is not only dangerous for motorists, but expensive and time consuming to repair by hand. Some of the roads that received moderate to major improvements were:

- Del Puerto Canyon Road;
- Cox Road;
- Frank Cox Road;
- Condit Road; and,
- Crow Road.

Shoulder repair is a concern which is addressed every year. Over 20 miles of road shoulder repairs were completed to eliminate drop-offs and drainage improvement. Pothole repair is another huge concern and the number one complaint of personal damage claims filed at the County’s Risk Management department for Public Works. Road crews applied over 1,480 tons of asphalt by hand in 2016 in an effort to eliminate potholes.



# Roads and Bridges (cont'd)

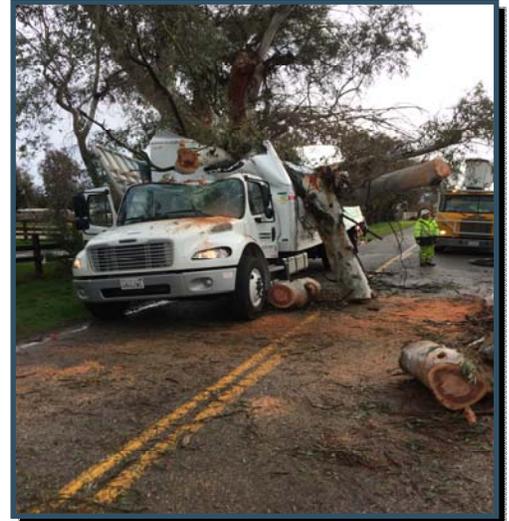
## Traffic Crew

Our tree crew worked nearly 120 hours of overtime removing down or hazardous trees this year. During regularly scheduled shifts the tree crew worked 4,182 man hours at a cost of \$230,023.

The traffic crew which also performs our tree maintenance and emergency response also stripes the roads, paints the road legends, and maintains the traffic signs.

### Traffic Crew Achievements for 2016

Centerline striping	443.2 miles
Edgeline striping	119.26 miles
Legends/White	775
Legends/Yellow	83
Traffic signs repaired	4,504
New sign installation	67



**Emergency response tree crew**

## Bridge Crew

During the summer of 2016 the bridge crew went to work on correcting the installation of drainage pipe by contractors in Oakdale on Almond Wood Court. The contractor had installed 250' of 16" PVC for drainage which was inadequate and eventually failed. Once located (which ran through private property and a landscaped lawn), the crew worked with the property owner to install 250' of 18" HDPE pipe. This was no small task, but was accomplished in a timely manner with positive results.

In addition to pipe replacement, the bridge crew also addressed several drainage issues from the previous winter. One of those locations was Pioneer Avenue at Redwood Avenue. Working with the general maintenance crew, the bridge crew installed several rock wells in a ditch developed for storage. Over 200 tons of drain rock were used.

Throughout the year the bridge team also replaced damaged bridge rails and responded to several hazardous spills. Monitoring the California State Bridge Inspection Reports also created a list of repairs to do year round. As a result, several bridge decks were sealed with "Methyl Methacrylate." Asphalt repairs were made to bridge approaches and edges including shrub and tree removal, spalling repairs, bridge rail improvements, painting, and rock pocket repairs. In total:

- Used 2,765 tons of drain rock;
- Sealed four bridge decks with "Methyl Methacrylate;"
- Installed 570' of drainage pipe;
- Replaced 311' of guard rails;
- Swept 1,655 miles of streets; and,
- Mowed 780 miles of roadside.



**Almond Wood Court  
reinstallation of drainage pipe**

# Roads and Bridges (cont'd)

## Projects



**Cox Road blade patching: Before (two photos on left), and after (photo on right)**



**Claribel Road pipe replacement with Garrett Anderson and Kevin Thatcher**



### Seasonal Tidbit:

During the autumn months, roads crew typically starts striping, and painting legends. The bridge crew starts preparing for the winter storms by cleaning catch basins.



**Trimming palm trees on Las Palmas Avenue in Patterson**



**Jonathan Freeman creating a speed limit sign in the Sign Shop**



**Elliott Lea on grader**

# Roads and Bridges (cont'd)

## Constructing well drilling pad at Crows Landing Airport



Compacting added dirt



Next comes asphalt



Zinch Minis rock to finish project

## Clearing out rock slides in Del Puerto Canyon



## Repairing soft spots on Del Puerto Canyon Road



Before



Grinding out soft spots



Smoothing out final product

# Design Engineering

## Santa Fe Avenue over Tuolumne River Bridge Replacement

The Santa Fe Avenue is a major north/south arterial road near Empire. The bridge over Tuolumne River is located approximately one mile south of State Route 132 and serves as a link between the community of Empire and the City of Hughson. The bridge serves approximately 10,000 vehicles per day with 10% of those vehicles being trucks. The existing structure was built in 1947 and is currently rated by Caltrans as functionally obsolete. Additionally, the bridge is deemed to be seismically deficient and therefore does not meet current seismic design standards. As a result, it was determined that the replacement of the bridge is a more feasible option than retrofitting the bridge to meet current seismic and geometric design standards.



The existing structure is narrow having a width of only 24 feet curb to curb and allows for two travel lanes with no shoulder on either side. The proposed replacement structure will have two 12 feet travel lanes, with 8 feet shoulders, and a 12 feet center median lane to accommodate safe turning movements to and from existing driveways located at both ends of the bridge. Currently, the project is in the last stages of the preliminary engineering and right of way phases. While this \$11.4 million project has been in the works for many years, the Design Engineering division is anticipating awarding the construction contract for the project in the summer of 2017.

Before any construction work could begin, there were trees that had to be removed. There were a number of trees located at the site of the proposed bridge, immediately east of the existing structure. County crews removed most of the trees and an independent contractor was hired to remove the remaining larger ones. What made this tree removal challenging was the potential of the migratory birds and/or bats nesting in them. For the County to be in compliance with the environmental regulations, the trees had to be removed during a period outside of the nesting seasons (September 15<sup>th</sup> to October 15<sup>th</sup>).

Furthermore, a qualified bat biologist needed to be onsite during the tree removal process to ensure compliance with our permits. With assistance from our engineering consulting firm, Dokken Engineering, trees were marked for either normal removal or potential bat habitat tree removal processes.



Trees designated for normal removal were removed from an elevation that is six inches above the adjacent ground surface. The stumps and roots were left intact to avoid any ground disturbance. Trees designated as potential bat habitat were removed using the following two-step process, conducted over two consecutive days:

- Day 1: Trees containing suitable potential bat habitat were trimmed with initial supervision by the qualified bat biologist from Dokken Engineering. Branches and small limbs containing no potential suitable habitat as identified by the qualified bat biologist were removed using chainsaws only (no dozers, backhoes, cranes, or other heavy equipment, other than to provide access for tree cutters using chainsaws).

**Seasonal Tidbit: Trees for the Tuolumne River Bridge Replacement had to be removed during a period outside of bat nesting season: September 15th - October 15th (autumn).**



# Design Engineering (cont'd)

- Day 2: The remainder of each bat potential tree was removed at an elevation that is six inches above the adjacent ground surface. The stumps and roots were left intact to avoid any ground disturbance. For trees containing potential bat habitat, Day 2 activities were to occur the day immediately following the Day 1 activities. To accomplish this, tree removal work was phased and Day 1/Day 2 steps were repeated. Now that tree removal is complete, the project is on schedule for construction in the summer of 2017.

## Proposed McHenry Avenue Widening Phase II

The County of Stanislaus proposes to widen the existing two-lane McHenry Avenue to a total of five lanes (two lanes each direction, and one continuous left turn/median lane) from the intersection of Ladd/Patterson Road to the south abutment of the McHenry Avenue Bridge over the Stanislaus River, approximately a total of 1.9 miles in length. As part of the widening of McHenry Avenue, the McHenry Avenue Bridge over Dry Slough (Bridge No. 38C-0002) will be removed and replaced with a culvert topped with earthen fill.

Stanislaus County's plan is to improve and accommodate the north to south interregional traffic between the cities of Modesto, Escalon, and to State Highway 108 by widening McHenry Avenue. The project will also improve regional circulation, relieve existing traffic congestion, reduce traffic delay, accommodate future traffic, improve safety, promote non-motorized modes of transportation, and allow for good movement and job development for existing and future developments. The project is needed as the Average Daily Traffic counts (13,000 vehicles per day) are closely reaching capacity of the existing two lane roadway.

Design Engineering division staff is preparing the plans, specifications and estimates for this project, with support from Dokken Engineering in regards to the environmental aspects of the project. The project is estimated to obtain funding and begin construction in the summer of 2020.



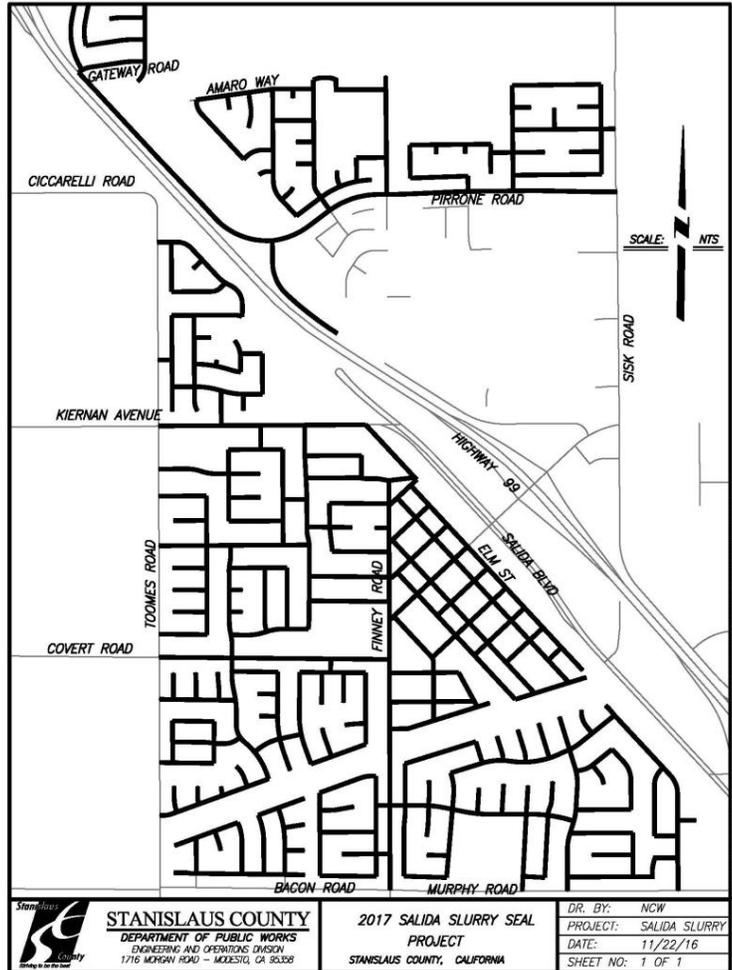
# Design Engineering (cont'd)

## Proposed 2017 Salida Slurry Seal Project

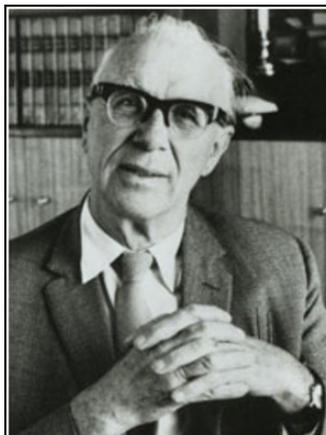
The 2017 Salida Slurry Seal Project is part of the Stanislaus County Five Year Slurry Seal Plan. Historically, Public Works delivers an annual slurry seals project in urban neighborhoods. Due to recent declines in gas tax income, Public Works wasn't able to deliver any slurry seal projects in 2015 and 2016. With the ½ cent sales tax measure (Measure L) passing, the department is excited to begin delivering annual pavement maintenance projects again.

The 2017 Salida Slurry Seal Project focuses on approximately 32 miles of County roads in the unincorporated community of Salida. This pavement preservation treatment is most effective in urban neighborhoods. A slurry seal is intended to treat the surface of asphalt pavement by placing a layer of oil and crushed rock on top of the existing pavement. There are many advantages to the slurry seal such as:

- Minimizing oxidation/ageing;
- Reducing water infiltration;
- Providing skid resistance;
- Improving aesthetics; and,
- Correcting raveling and weathering.



Overall it extends the service life of the roads by approximately three to five years.



Engineering is not a science. Science studies particular events to find general laws. Engineering design makes use of the laws to solve particular practical problems. In this it is more closely related to art or craft.

— Ove Arup —

AZ QUOTES

<http://www.azquotes.com/quote/1378440>

# Design Engineering (cont'd)

## Woodward Reservoir Muir Point and T-Island Campgrounds

The Woodward Reservoir Muir Point and T-Island Campgrounds Project was successfully constructed in early 2016. The project's purpose was to expand recreational camping facilities at the Woodward Reservoir Regional Park (WRRP) by adding new infrastructure and upgrading existing infrastructure to support the project's improvements. The scope of improvements included: a total of 61 new sewer and electrical services with recreational vehicles hookups, remodeled existing restroom at T-Island Campground, replaced or upgraded existing sewer pump stations, installed gravity sewer system at T-Island and Muir Point Campgrounds, and upgraded existing electrical service and infrastructure. Some examples of project before and after improvements include:

The sanitary sewer pump station that services T-Island Campground was obsolete. The old pump station was removed and new one constructed.



**T-Island Pump Station before improvements**



**T-Island Pump Station after improvements**

The existing restroom at T-Island Campground lacked proper Americans with Disabilities Act (ADA) access and parking space. As part of project improvements, the restroom was completely remodeled, paved ADA parking spaces were constructed, and concrete walkway installed to provide proper ADA restroom accessibility.



**T-Island Restroom before improvements**



**T-Island Restroom after improvements**

# Design Engineering (cont'd)

As part of project improvements, access roads were reconstructed with new asphalt pavement to provide better access to various campground locations.



Access Roads before improvements



Access Roads after improvements

## Crows Landing Road at West Main Street Intersection Upgrade (Project #9729)

The Crows Landing Road at West Main Street Intersection Upgrade project was successfully constructed in early 2016. The project's purpose was to improve safety, capacity, and air quality at the intersection in an effort to maximize traffic flow throughout the County road network system, to accommodate existing traffic congestion conditions, and to meet capacity requirements for future growth. The scope of improvements included: construction of traffic signals, intersection widening, and improve storm drain runoff control system.



Intersection before improvements



Intersection after improvements

Seasonal Tidbit: The Crows Landing Road at West Main Street Intersection Upgrade (Project #9729) was completed in April 2016 (spring).



# Design Engineering (cont'd)

## Airport Neighborhood Sewer Improvements

First project phase was constructed in 2014 and included installation of gravity sewer system along Kerr Avenue. County has developed improvement plans for second project phase. The second phase will include construction of new gravity sanitary sewer system which consists of approximately 20,000 feet of sewer pipe. The completed project will provide approximately 362 sewer service connections to the residents of the Airport Neighborhood Sewer District. Most of project's construction is funded by the grant from California Water Board Department and additional funding is provided by the Community Development Block Grant. Project improvement plans have been completed and project was advertised for construction. Project's construction is tentatively scheduled to start February, 2017.



**Airport Neighborhood  
Mono Drive**



**Denae Davis, Administrative Secretary for  
Design Engineering**



**Design and Survey safety meeting at the new  
Administration building site**

***Denae Davis, Administrative Secretary for Design Engineering,  
processed 80 Board Agenda items for Public Works in 2016***

# Transit

## Transit Division

The Transit division successfully completed several transit projects and programs in 2016 which included service improvements and capital transit projects throughout the service area. Service changes implemented included a new commuter service route serving the Dublin BART station from Turlock and the Westside of the County. Based on comments received from residents needing to connect to shopping and activity centers, the Waterford/Modesto Runabout was converted to a new fixed route, Route 61, linking residents in Waterford/Empire/Hickman/Hughson to Modesto and Ceres. A new Americans with Disabilities Act (ADA) complementary paratransit service was made available to individuals with disabilities which prevent them from using fixed-route buses. The service is provided within a ¼ mile radius of a StaRT Fixed Route. Other changes made include adjusting running times on select fixed routes as well as realigning some of the routes to better serve residents in the service area. For instance, Route 45-E was realigned to provide additional service within the city of Patterson and to improve travel to and from the City of Turlock. Route 15 was realigned to address service duplication in areas served within the City of Turlock.



Transit team left to right: April Henderson Potter, Annette Borrelli, Sharon Solero, and Juan Portillo



New StaRT Commuter

Additionally, the division implemented new programs in August 2016 to enhance and augment transit services offered in the County's service area. Among them were a new fare structure and the Half Fare Identification (ID) card program. In support of the new ADA paratransit service, the division also implemented the ADA Eligibility Functional Assessment program to assist staff in evaluating and certifying eligible applicants to use the County's ADA paratransit service. Both the ADA Eligibility Functional Assessment and Half Fare ID programs have been well received in the community.

To date, staff have processed and issued close to 200 new Half Fare ID cards for seniors and persons with disabilities. In addition, staff have approved and certified over 20 eligible applicants to utilize StaRT's new ADA paratransit service.

Below is a list of some of the division's accomplishments in 2016 including:

- Participation in several County-wide events to promote and market StaRT's transit services including attendance at:
  - Healthy Aging Summit
  - Rideshare Week Activities
  - Senior Awareness Day Events
  - Modesto Earth Day Event
  - Senior Transportation Faire
  - City of Riverbank Riverfest
  - Oakdale Senior & Block Party Events
  - Samaritan Village Faire
  - VIPS Outreach Activities
  - Waterford Heritage Days
  - Community Service Agency Open Houses
  - Employment Development Department Veterans Job Fair
  - Disability Resource Agency for Independent Living (DRAIL) Resource Fair



Our very own John Fitzpatrick at Riverfest with Transit

# Transit (cont'd)

- Implementation of new fare structure in StaRT's service area;
- Upgrade of StaRT's website with new features;
- New design of marketing and promotional materials for all transit services;
- Completion the State Controllers and the Transportation Development Act Triennial Audits;
- Participation in the annual Unmet Transit Needs public meetings and hearings held by the Stanislaus Council of Governments;
- Completion and submission of grant applications and reports to federal and state agencies, as well as submission of the National Transit Database (NTD) Report to the Federal Transit Administration and Caltrans;
- Procurement of one 45-foot new commuter bus, three 40-foot fixed route, and six 25-foot-29-foot paratransit buses;
- Completion of Request for Proposals (RFP) and awarded Bus Shelter Maintenance contract to CBS Janitorial Services;
- Approval from Caltrans on the Storer Transit Operations Contract Amendment to include ADA Complementary Paratransit and new commuter bus services;
- Acquisition of new data management and reporting software from TransTrack to streamline process to manage and submit transit data and reports;
- Creation and design of new commuter service bus stop signage;
- Successful completion of Federal Transit Administration (FTA) Subrecipient Oversight and Management Plan Review with City of Modesto Transit; and,
- Participation in monthly meetings at the Stanislaus Council of Governments, Commission on Aging, Stroke Resources, and Central Valley Maps.

New 40-foot Flyer bus



Paratransit bus



Earth Day



Solar Shelter



# Transit (cont'd)



Event at Tenth Street Place



Commuter Bus



StaRT bus fueled by Compressed Natural Gas



Interior of Commuter Bus



Transit at Modesto Technical College Event

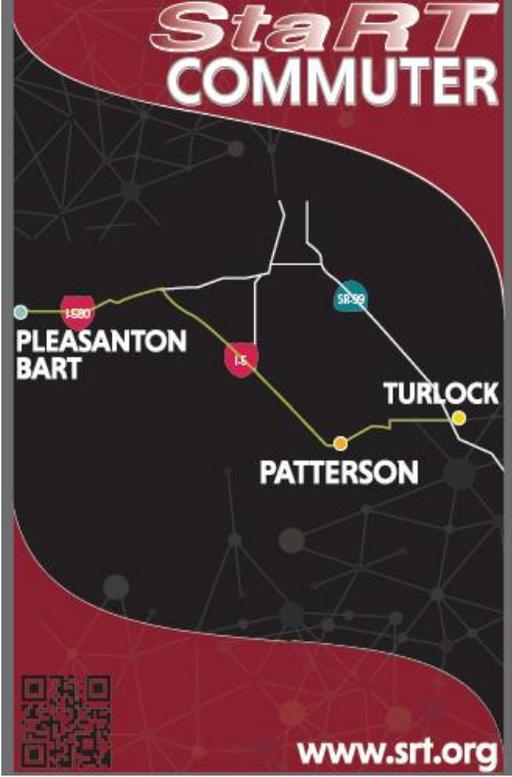


StaRT buses

# Transit (cont'd)

Proposed 2017 Transit Goals:	
1.	Evaluate and improve Transit services throughout the service area
2.	Finalize new bus stop signage design and issue RFP to award contract for installation
3.	Evaluate and improve ADA complementary para-transit service
4.	Continue to implement system-wide Intelligent Transportation System (ITS) program
5.	Enhance transit amenities in StaRT's service area
6.	Conduct short and long transit planning study per recommendations in the Triennial Audit report
7.	Research and explore feasibility of implementing a Bus/Bus Shelter Advertising Program
8.	Finalize installation and completion of new scheduling software system.

## New Commuter Service Bus Stop Signage:

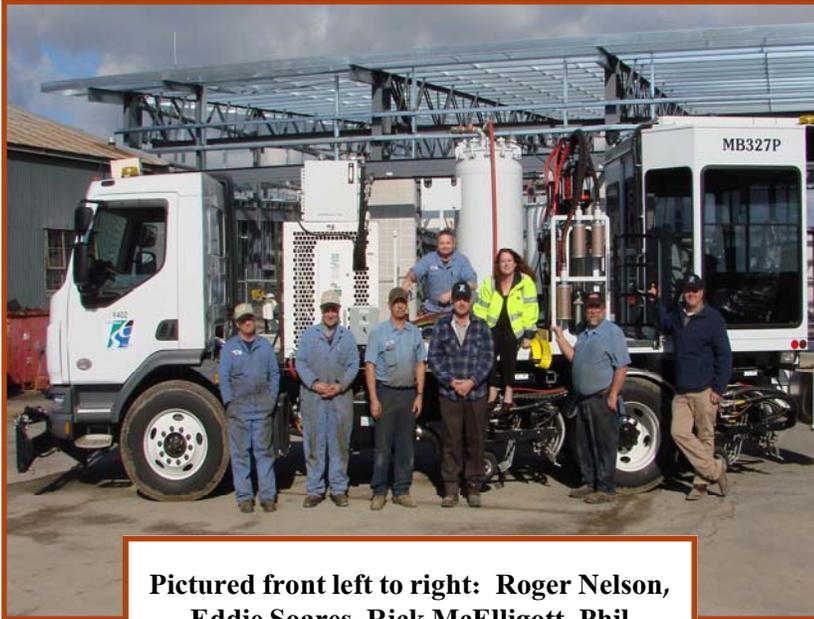


## New Public Works Transit Division Employee: Juan Portillo

In December of this year, Juan Portillo joined the Public Works Department to fill the position of Transit Planner. Juan is a Marine Corps Veteran and has 15 years of experience in public transportation. Juan obtained his Bachelor of Science in Business Management from San Jose State University in 2016. He enjoys running, movies, traveling, and spending time with his family.



# Morgan Shop



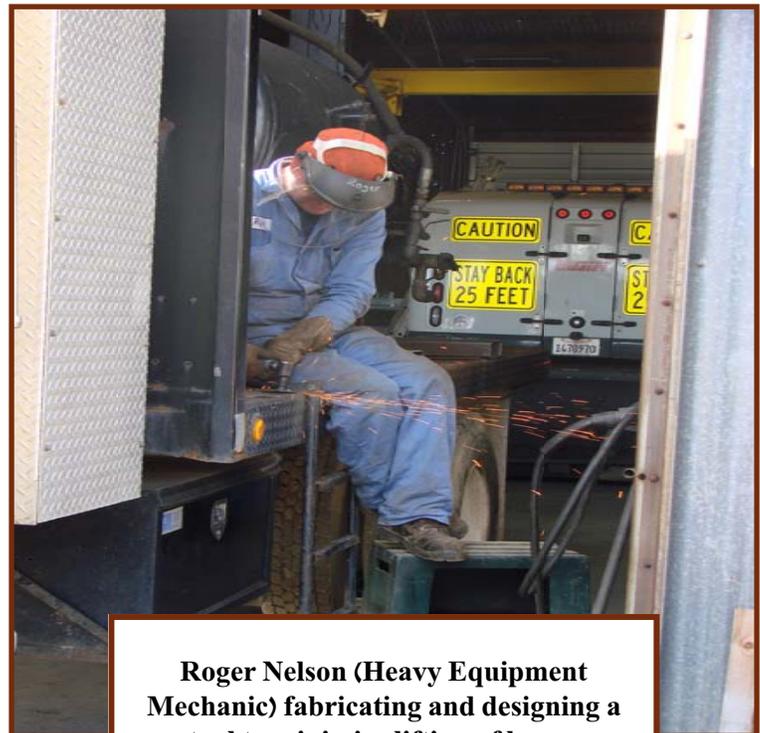
Pictured front left to right: Roger Nelson, Eddie Soares, Rick McElligott, Phil Harley, Dave Stacy, and Tate Hoffman. Back row: Brett Ernest and Olivia Tanner

## About:

Morgan Shop is an Internal Service Fund (ISF) whose chief function is to maintain and repair a large array of equipment and vehicles operated by the Roads and Bridges Division. Morgan Shop also supplies technical and mechanical services to other County departments and municipalities.

## Mission Statement:

We will provide prompt quality maintenance and repair of our County customers' equipment to keep them running efficiently. We will provide useful equipment for our customers to do their jobs effectively.



Roger Nelson (Heavy Equipment Mechanic) fabricating and designing a tool to minimize lifting of heavy equipment.

Morgan Shop processed a total of 2,129 work orders in 2016.

# Morgan Shop—Partnerships

## Stanislaus County General Services Agency's Fleet Services

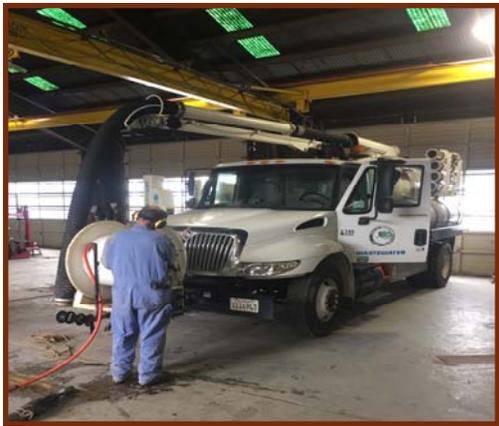
Morgan Shop and Fleet Services are currently in the process of partnering in a new web based equipment management system called Asset Works. This partnership will allow better record keeping on all equipment no matter which shop is performing maintenance or repair. Below are a few bullet points speaking to the positive growth this new system will bring both Stanislaus County shops in the near future:

# AssetWORKS

- You are able to name and save filters for defining information that you access regularly.
- The new version has spell check whereas the old version had an open field.
- The old version or graphical user interface (GUI) style is all upper case. The new version will have lower case especially for emails for example.
- Multiple work orders can be opened at one time or have a parent work order over a group of work orders. Examples of where this would benefit is a recall of multiple vehicles or a batch of new vehicles that are all the same.
- Photos can be attached to Asset files for reference.
- Files can simply be attached to work orders. Examples are pictures of damage or police reports for vehicles in an accident.
- You can schedule reports to run at a given interval and then email them automatically to whoever needs that data.
- Notifications can be set up to email an operator or customer when a service or inspection is due.
- Parts can be requested from the work order and a notification is sent. In return when a part has come in a notification can be sent and an icon posts on the work order.
- Embedded mapping can be added to work orders for service calls.
- Preventative maintenance checklists can be done electronically.
- An asset can be assigned to another asset, an operator, a location, or a department. Good examples are the two way radios in the trucks and the hand held radios.
- A scheduled day and time can be added to a work order.
- Work orders can be prioritized and assigned to individual technicians in their own queue.



**Shop extra help from Alliance Worknet: Martin Valdovinos. He is missed!**



**Eddie Soares (Heavy Equipment Mechanic) working on the City of Waterford's vactor**

### City of Waterford

*“As a small city, Waterford does not have the luxury of a full fleet servicing shop. The County reached out to us last year and offered to help us maintain our large equipment including our CNG vehicles. This relationship has been very successful. The mechanics are very informative and resourceful. Customer service is wonderful. Thank you to all the fleet guys!”*

*Steve Green, Public Works Supervisor  
City of Waterford*

# Morgan Shop (cont'd)



From left to right: Rick McElligott (Heavy Equipment Mechanic) consulting with Tate Hoffman (Manager III)

## Morgan Shop distributed in 2016:

- 206,609 gallons of compressed natural gas (CNG)
- 184,712 gallons of unleaded fuel
- 1,568 gallons of diesel fuel
- 51,469 gallons of biodiesel fuel

## Goals for 2017:

Morgan Shop's biggest goal for 2017 is to assist with the completion of the construction phase of the new Shop and to move in without disrupting services provided to customers. Other goals will involve efficiently integrating new processes that arise with the new Shop to improve services to the Roads and Bridges division and other customers. Stay tuned next year to see how successful Morgan Shop was with accomplishing these goals.



2016 Ford F250 CNG

## Accomplishments for 2016:

- In July of 2016, the Shop started using a single work location instead of the previous four to simplify its processes. One result from this change was a reduction in the time it took to print and bill work orders.
- Purchased one paint striper and four pickups to replace depleted and old equipment.
- Assisted in the construction phase of the new Shop.

## 2017 Peterbilt Striper



# Morgan Shop (cont'd)



**Brett Ernest (Heavy Equipment Mechanic)** working on an air conditioning evaporator case



**Olivia Tanner (Staff Services Analyst)** chasing down mechanics



**Jesse Ramirez and Mitchell Medeiros** from DER Household Hazardous Waste

In addition to maintaining and repairing heavy equipment and vehicles, Morgan Shop also takes care of the following:

- Wash rack
- Gates and fences
- Yard lights
- Cameras
- Fuel station
- Yard plumbing
- Scale for weights and measures
- Fabrication for road signs and posts for sign crew
- Miscellaneous special tool fabrication
- Various fabrication projects for the Landfill: grates, plumbing, fences, gas burners, etc...

## Department of Environmental Resources

*“My experience that I have had working with the Morgan Shop has always been excellent. Whenever I have an issue that requires their services, I make one phone call and someone is always ready and available to take care of my problem in a timely manner.”*

*Jesse Ramirez  
Customer from DER Household  
Hazardous Waste*



**Phil Harley (Lead Equipment Mechanic)** managing parts

# Safety

## Accidents/Incidents:

Incident – an event in which an exchange of energy occurred and there was contact, but it did not lead to an injury, property damage or loss of process.

Accident – an event in which an exchange of energy occurred, there was contact and it led to an injury, property damage, or loss of process.

The “Accident Review Committee”, which met on the first Tuesday of each month, reviewed a total of **21 events for 2016**.



**Deborah Hawkins drawing for a gift card winner.**



**Casey Roberts \$50 winner for October**

**The 2016 record for incident, accident, injury free days was 184.**

2016		
Month	Number of Accident/ Incidents	\$50 Gift Card Winners for No Accidents/ Incidents
January	4	
February	4	
March	1	
April	1	
May	None	Elliott Lea
June	3	
July	2	
August	None	Jorge Molina
September	2	
October	None	Casey Roberts
November	3	
December	1	

### Seasonal Tidbit:

More accidents/incidents occurred during the winter months of January and February for 2016.



# Safety (cont'd) - Quarterly Meetings



**Chief Dale Skiles - County employees as mandated emergency workers**



**Fire extinguisher training and demo**



**Dennis Cordova - California Highway Patrol commercial transportation laws**



# Charity/Events



St. Patrick's Day Potluck



Halloween Finger Foods



Christmas Tree Decorating and Holiday Gift Exchange



# Charity/Events (cont'd)



**Chili Cook-off-  
Randy Avants  
winner**



**Bring child to work day**



**Shelley the Pistachio for  
Stanislaus County Night with the  
Modesto Nuts**



**Kiernan Interchange Ribbon Cutting**



**Sam Chrun, Aron Harris, and  
Peou Khiek farewell**



**Potluck for Scotty Atchinson  
in loving memory**



# Charity/Events (cont'd)

## 2016 Public Works Holiday Project



This year Public Works prepared shoe boxes to donate to Operation Christmas Child (OCC) for our department holiday project. OCC is a project of Samaritan's Purse and offers hope to children ranging from ages 2 to 14 from around the world.

Our goal for Public Works was to complete at least five more shoe boxes than we completed in 2014. In 2014 we completed 31 shoe boxes. We exceeded our goal by 11 shoe boxes!!!! Public Works employees donated a total of 24 filled shoe boxes. In addition, we received over \$215 cash so that we could complete 18 more shoe boxes for a total of 42! Let's not stop there. We also collected

\$294, which was enough to cover shipping charges for all of our shoe boxes. We actually had our biggest participation this year with 29 employees donating to our holiday project.

This was a very heartwarming experience for us to participate in. I am very proud of our department for being able to reach so many children with our gifts of hope and love. Thank you!

*"I am very proud of our department for being able to reach so many children with our gifts of hope and love."*

**Julie Serrano**  
Public Works Road Accountant III & Equal Employment Opportunity Commission Officer



**Wellness Connect**



**Matt Machado wearing a County Engineers Association of California "hard hat"**



**Taking down our "circus" tent to prepare for construction of our new Shop and Administration buildings**

# Employee Appreciation Luncheon



# Employee Appreciation Luncheon (cont'd)



# Service Awards & New Employees

## Stanislaus County Service Awards

### 10 Years

Isaac Angel, Road Maintenance Worker III  
Keimi Espinoza, Confidential Assistant IV  
Marty Harper, Road Maintenance Worker III  
Joe Lomeli, Road Maintenance Worker III  
Jayne Sissle, Staff Services Technician  
Peter Song, Assistant Engineer

### 15 Years

Juan Maldonado, Road Maintenance Worker III  
Rick McElligott, Heavy Equipment Mechanic  
Anthony Ramirez, Road Maintenance Worker III  
James Sanchez, Senior Road Maintenance Worker  
Jose Torres, Road Maintenance Worker III

### 20 years

Darren Teeples, Road Supervisor

### 25 Years

Scott Waddell, Senior Road Maintenance Worker

### 30 Years

Randy Avants, Manager III



## New Employees

Sharon Solero, Staff Services Analyst, 3/21/16  
Shoaib Ahray, Associate Civil Engineer, 7/25/16  
Frederic Clark, Deputy Director, 9/6/16  
Amber Gomes, Manager I, 9/19/16  
Bryant Desaire, Road Maintenance Worker I, 10/3/16  
Michael Maldonado, Road Maintenance Worker I, 10/3/16  
Arthur Spears, Road Maintenance Worker I, 10/3/16  
David Godinez, Road Maintenance Worker I, 10/31/16  
Juan Portillo, Associate Planner, 12/12/16



# Look into the Future



**Completion and move: Public Works Administration Building and Shop**



**Hatch Road and Santa Fe Avenue**



**McHenry Avenue Widening**



**Welty Road Project**

*“Even though the future seems far away, it is actually beginning right now.”*

*Mattie Stepanele*

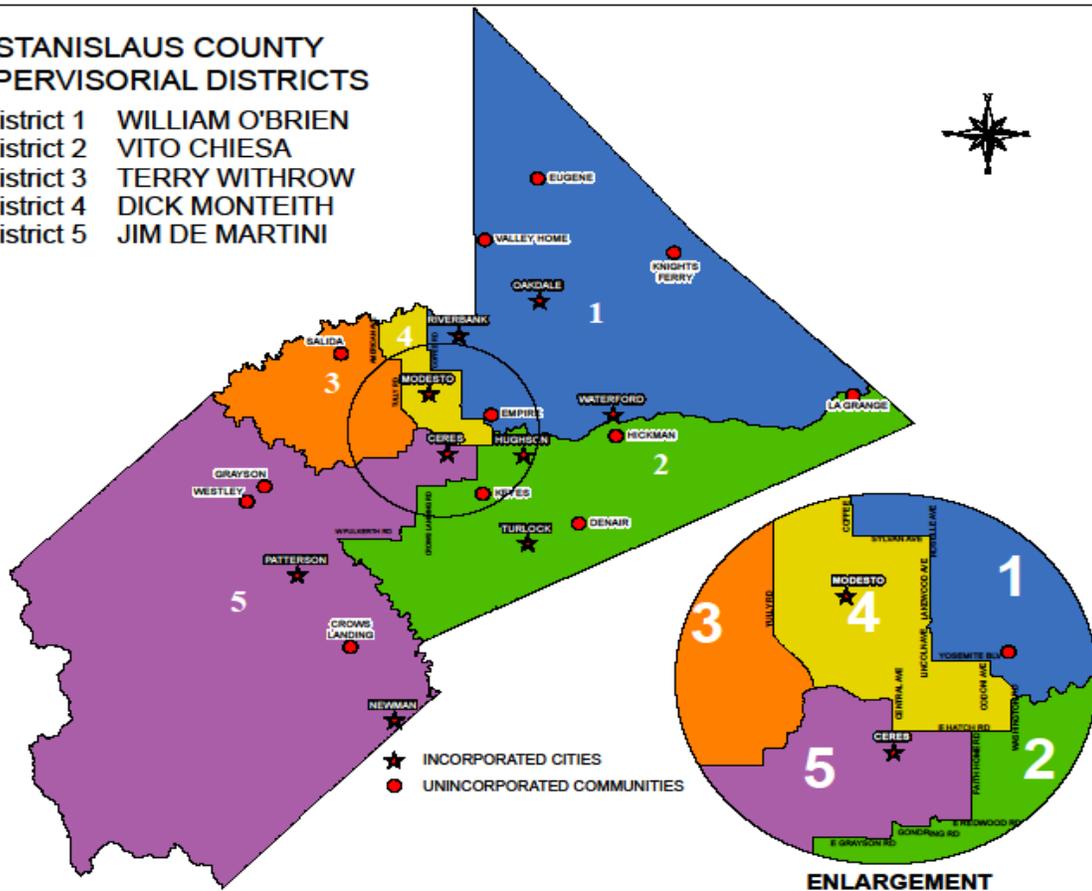
# Board of Supervisors



From left to right: Vito Chiesa, Terry Withrow, Jim DeMartini, Vice Chairman William O'Brien, and Chairman Dick Monteith

## STANISLAUS COUNTY SUPERVISORIAL DISTRICTS

- District 1 WILLIAM O'BRIEN
- District 2 VITO CHIESA
- District 3 TERRY WITHROW
- District 4 DICK MONTEITH
- District 5 JIM DE MARTINI



# Contacts



[www.stancounty.com/  
publicworks](http://www.stancounty.com/publicworks)



**1010 10th Street, Suite 4204  
Modesto, CA 95354**

**(209) 525-4130**

**(209) 525-6507 Fax**

**(209) 525-4332 Fax for Transit**

- Development Services
- Encroachment Permits
- Transportation Permits
- Transit



**1716 Morgan Road  
Modesto, CA 95358**

**(209) 525-4130**

**(209) 541-2505 Fax**

- Administration
- Construction Engineering
- County Surveyor's Office
- Design & Traffic Engineering
- Finance
- Morgan Shop
- Roads & Bridges

**You may also contact us by submitting your  
questions or concerns online at:**

**[www.stancounty.com/customercenter](http://www.stancounty.com/customercenter)**

**or**

**Stanislaus County's assistance hotline at**

**1 (877) 2ASSIST / 1 (877) 227-7478**

