

**Zone 3**  
**Report to the Zone Commissioners**  
**for Calendar Year 2016**  
By Jason Uhley, General Manager-Chief Engineer  
January 2017

## Accolades & Accomplishments

### LID Project

In 2012, the District completed a \$2.5 million retrofit of our headquarters in Riverside, CA to incorporate Low Impact Development features and landscaping. Since its construction, this project has received numerous awards, including the latest received from the National Association of Flood and Stormwater Management Agencies (NAFSMA) in 2016: "Top Overall Project" – Stormwater Management Green Infrastructure Awards.

### Eagle Canyon Dam

In November 2015, the District completed the Eagle Canyon Dam project, which not only put an end to this canyon's repeated damaging flash flooding, but also included \$1.2 million in environmental clean-up (funded by Palm Springs and Cathedral City) at this long blighted location. This \$10 million project has since received several awards, including:

- ASCE Overall Project of the Year (San Bernardino/Riverside Branch)
- ASCE Flood Management Project of the Year (Los Angeles Section)
- APWA Project of Merit Award (Southern California Chapter)
- ASCE Outstanding Flood Management Project (Statewide)

### Romoland/Homeland Project

In 2016, the District completed the \$27 million Romoland MDP Line A project, the largest single contract the District has ever issued. Construction of Romoland Line A's follow-up stage, the \$14.3 million "Homeland Line 1 and Juniper Flats Basin" contract will be complete in early 2017. These projects are good examples of the District and County working to achieve "smart growth" by ensuring that important infrastructure is built concurrently with new development rather than retrofit afterward.

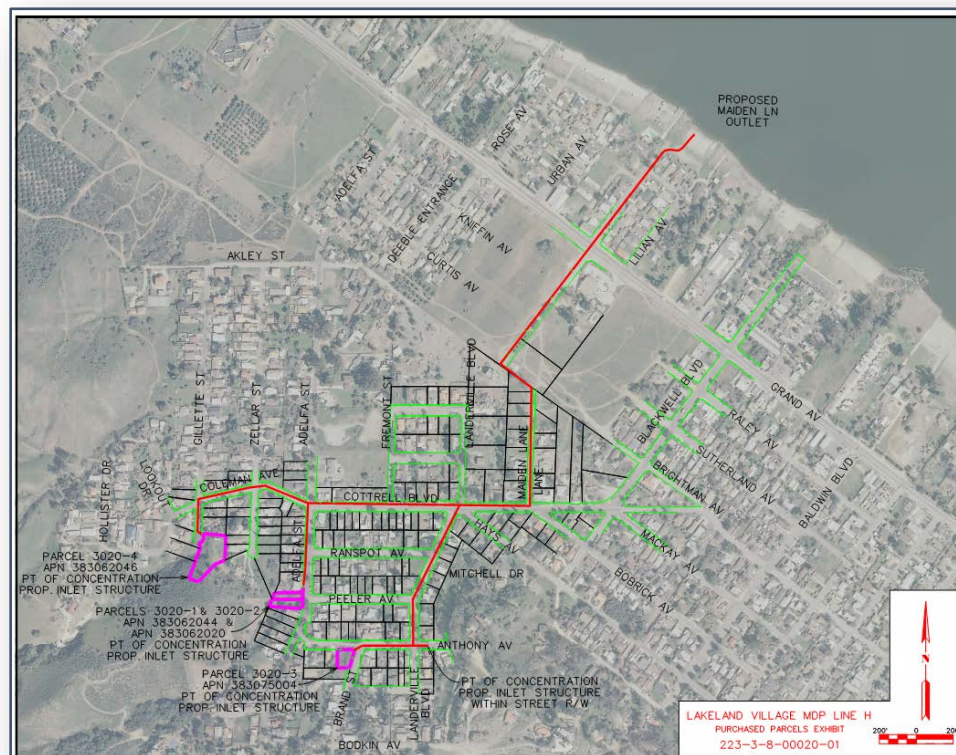
## Water Conservation & Water Quality

District staff continues to meet with regional water agencies in an effort better understand local groundwater basins and to promote joint stormwater recharge and other water conservation projects. To help locate and prioritize projects, the District is investigating/tracking dozens of existing basin/dam facilities which could be retrofitted to improve stormwater capture and recharge. The Stormwater and Water Conservation Geodatabase system ([rivco.permitrack.com](http://rivco.permitrack.com)) continues to be used to assist the Cities, County and developers with addressing flood control and National Pollutant Discharge Elimination System (NPDES) stormwater quality requirements.

## Capital Improvement Plan Projects

### Lakeland Village Line H (aka Adelfa Channel) (3-8-00020-01)

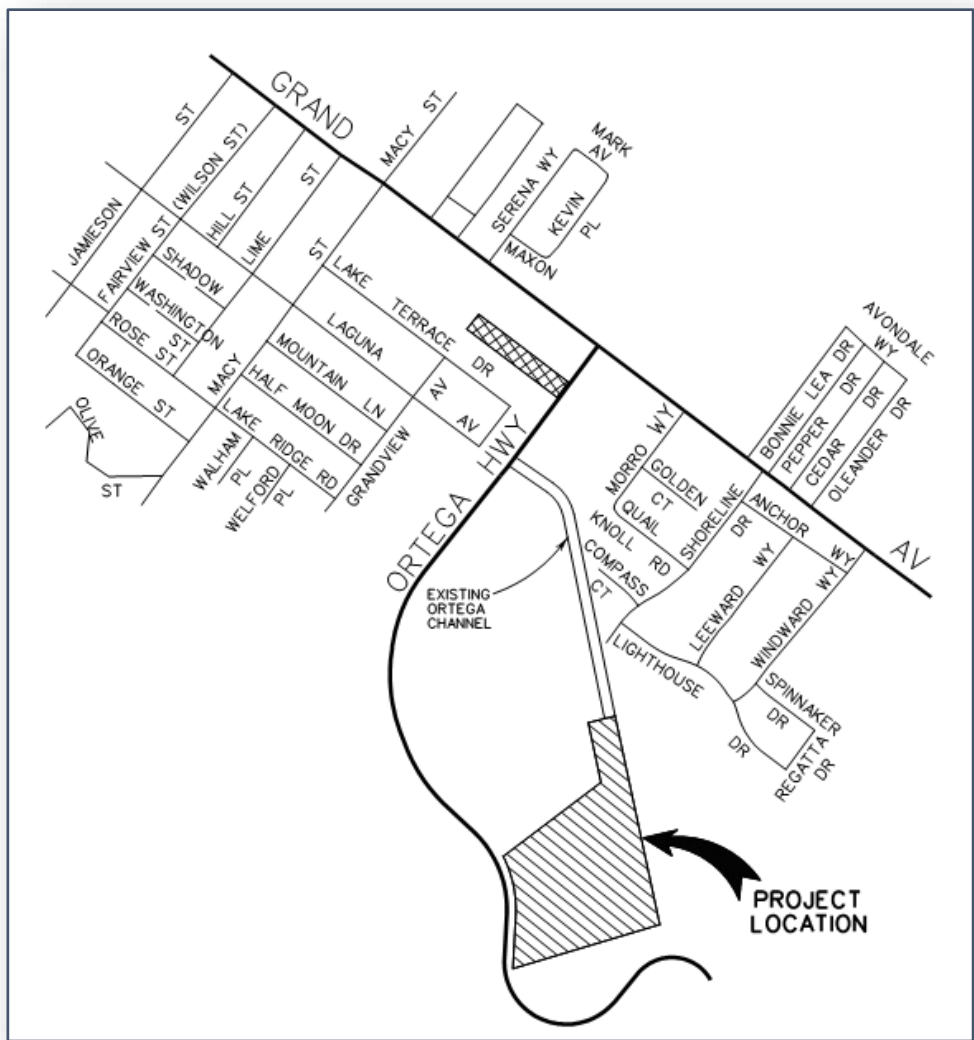
This project will be designed to gather flows from four separate ravines and route them to Lake Elsinore. The Lakeland Village Master Drainage Plan shows the alignment along Blackwell Avenue from the Lake south to Cottrell Boulevard and west on Cottrell to Adelfa Street. The laterals will be located within Landerville Boulevard, Adelfa Street and Coleman Avenue. The major pickup points are 1) at Gillette Street south of Coleman Avenue, 2) just west of Adelfa Street at the intersection with Peeler Avenue, 3) the southwest corner of Anthony Avenue and Brand Street and 4) just east of Landerville Boulevard at the intersection with Anthony Boulevard. The District has already acquired the properties at the collection points. Due to narrow and utility-congested streets and concern for access, three alternative alignments were studied during the preliminary design phase of the project. The Preliminary Design Report (PDR) studied three alignments and is substantially complete. The PDR concluded that the Maiden Lane alignment would be the least disruptive. An amendment to the PDR is currently being studied to incorporate a debris basin feature in an attempt to improve the water quality to Lake Elsinore. Once the PDR is complete, the District will hire a consultant in 2017 to progress the design from PDR phase to a complete set of plans and specifications to construct such facilities.



### Ortega Channel Debris Basin (3-8-00069-00)

The proposed project involves the construction of a debris basin upstream of the existing Ortega Channel Storm Drain east of Ortega Highway and south of Grand Avenue in the unincorporated Riverside County area of Lakeland Village.

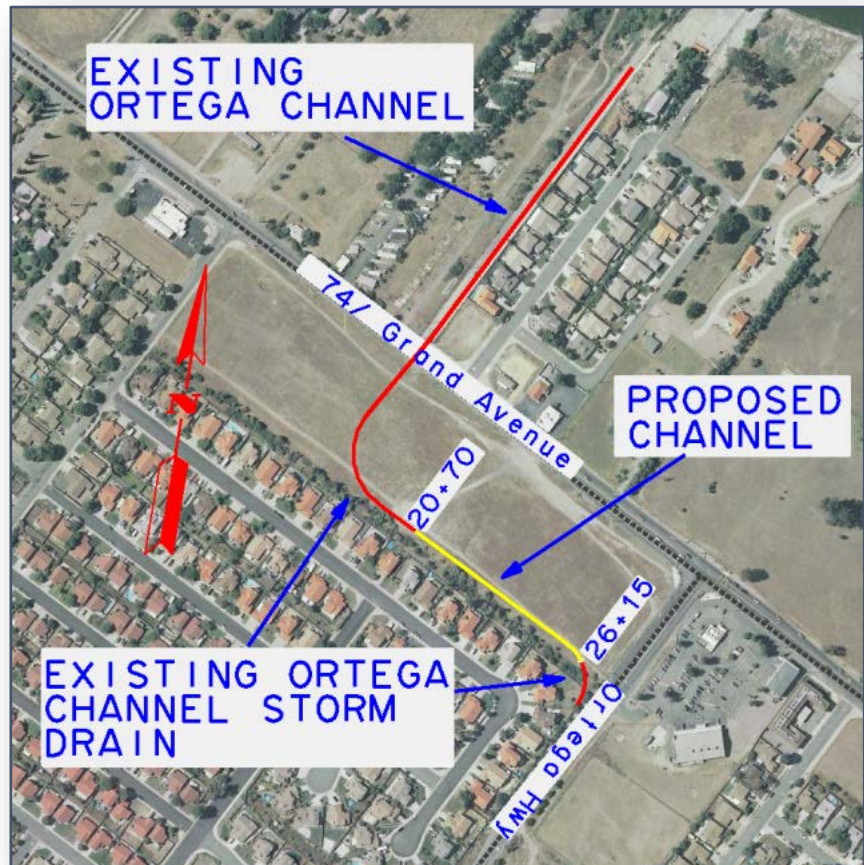
The project design calls for a combination of a trapezoidal channel and a debris basin in order to alleviate and resolve the sediment build up/clog currently affecting the existing Ortega Channel Storm Drain downstream of the project location. The trapezoidal channel will span approximately 750 feet and the project will require approximately 1,330 CY of excavation.



### Ortega Channel Retrofit (3-8-00070-90)

The proposed project is located in the city of Lake Elsinore, southwest and adjacent to Lake Elsinore. This project consists of replacing approximately 540 linear feet of the existing Ortega Channel Storm Drain (underground pipe) upstream of the Ortega Channel, Stage 1 tie in at Grand Avenue with a rectangular open channel. The channel will span from Station 20+70 to Station 26+15 as shown in yellow in the exhibit below.

The rectangular open channel will tie to the invert of the existing RCP, and the top of the channel walls will match the future finish grade found in the Ortega Channel, Stage 1 design plans.



### West Elsinore MDP, Line A Recharge Basin (3-8-00217-50)

The District is leading the efforts in determining if a District owned vacant parcel located along West Elsinore MDP Line A can be utilized for groundwater recharge. The District is coordinating this effort with Elsinore Valley Municipal Water District (EVMWD) and completed soils testing in 2016 that confirmed the site to be suitable for groundwater recharge. The project may incorporate small retention ponds capable of recharging stormwater runoff. The District will develop a Preliminary Design Report (PDR) to determine feasible design alternatives that best meet the project goals of stormwater recharge. The PDR will begin in early 2017 and will be completed within Fiscal Year 2017-2018 or sooner. Once a PDR is completed, the project will be scheduled for design and construction. The District will continue to collaborate with EVMWD as the project progresses.

