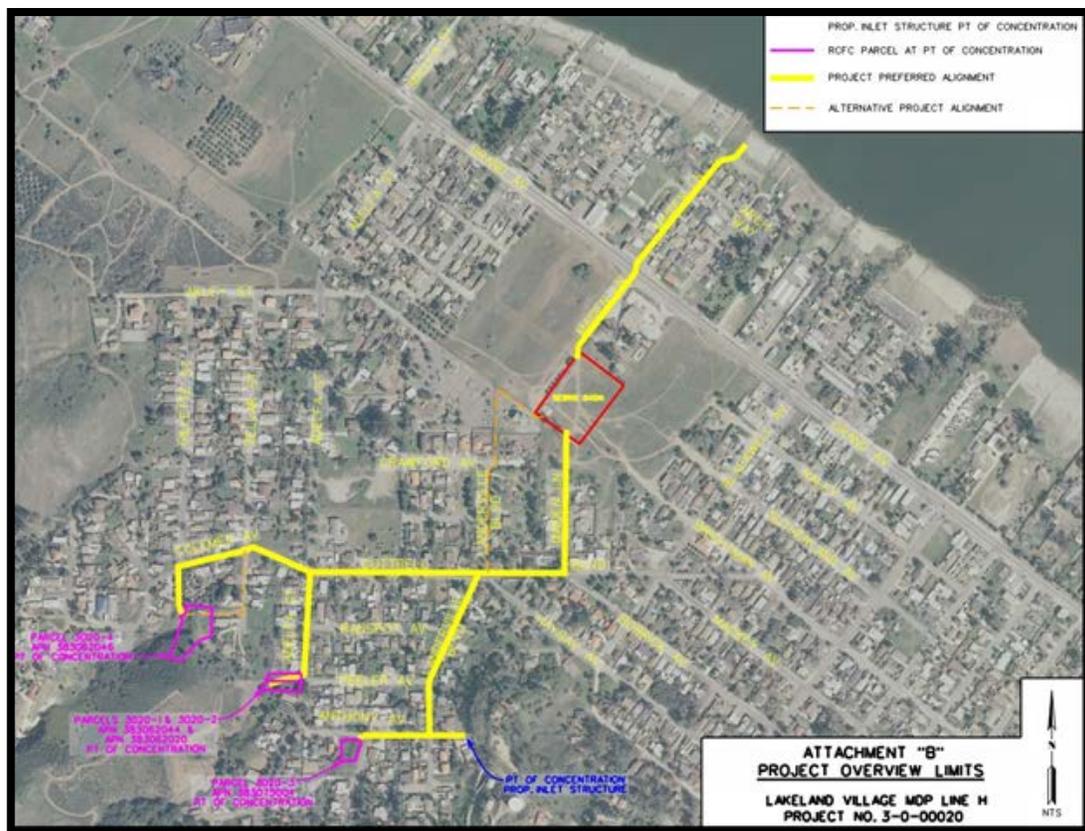


Zone 3
Report to the Zone Commissioners
 By Jason Uhley, General Manager-Chief Engineer
 November 2017

Active Design Projects

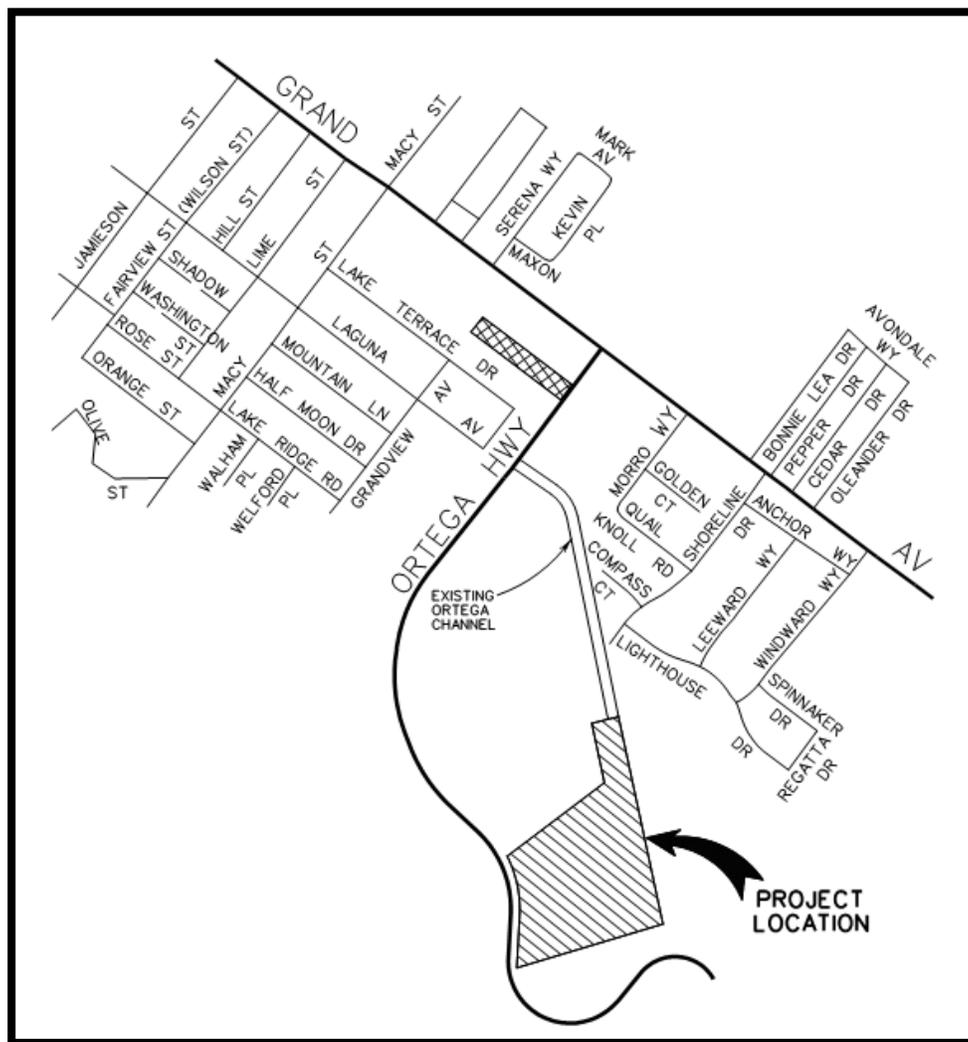
Lakeland Village MDP Line H (aka Adelfa Channel) (3-8-00020-01)

The District is the lead for the design and construction of this project. The goal is to capture storm flows at four locations near the hills located southwesterly of Lake Elsinore and convey them safely through an underground facility within existing streets to the Lake Elsinore outlet and the northerly end of Maiden Lane. The District will design and construct the facility to eliminate approximately 40 acres of floodplain affecting residential and commercial properties and various streets within the Lakeland Village community. The District is seeking additional flood hazard mitigation grants from FEMA. Project construction is anticipated in late 2018.



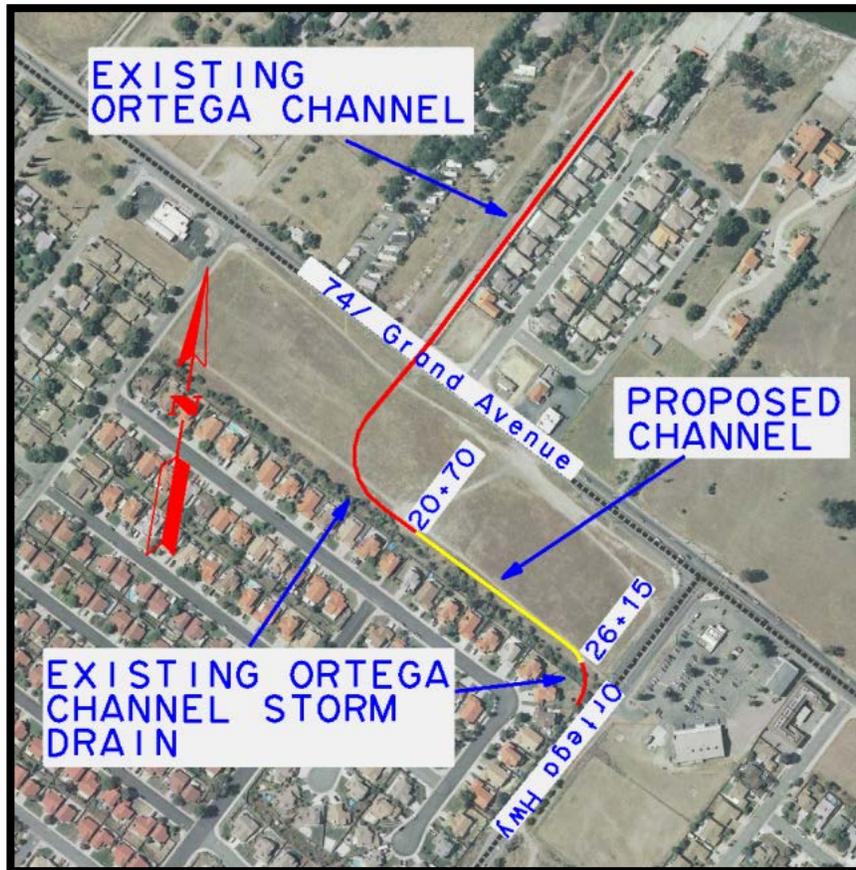
Ortega Channel Debris Basin (3-8-00069-00)

The project is proposed to solve the recurring sediment build up/clogging issue in the downstream 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 to capture debris and sediment. However, the project is located within a proposed development with an unknown timeline. In the interim, efforts are focused on the Ortega Channel Retrofit (3-8-00070-90, see below) to allow the District to remove sediment build up from the storm drain.



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

The Channel Retrofit project, led by the District, is primarily intended to facilitate the maintenance of and the removal of sediment from Ortega Channel Storm Drain located in the city of Lake Elsinore. The proposed project intends to replace the sediment-prone section of underground pipe with a rectangular open channel that can be more easily maintained. The District is currently in the process of acquiring design mapping for the project so that an engineer can begin working on the project's design. The District intends to fully fund this project.



Third Street Channel, Stage 2 (3-8-00175-02)

This project is an extension of the existing Third Street Channel drainage system to help address street flooding east of the Interstate 15 freeway. The project consists of underground box storm drain from Collier Avenue to the I-15 freeway and pipe from under the freeway to Cambern Avenue. The estimated cost of \$2,800,000 for design and construction will be funded through a cooperative agreement between the District and City of Lake Elsinore. The District will be contributing \$700,000 to this project for design and construction, with the remainder being paid by the City. It is proposed that the District will accept portions of the project for ownership, operation and maintenance under a separate agreement in the future.

The City initiated the design process in 2016, and has been working with the District to finalize plans and a cooperative agreement for Stage 2 (shown in green). The City expects to construct this project within the next year. The City has also submitted plans for Stage 3 (shown in yellow) which will complete the upstream portion of Third Street Channel by extending it to Welch Drive.



Sedco Line F, Stage 3 (Bundy Canyon Rd) (3-8-00141-03, 3-8-09022 in budget)

The project will improve safety by reducing flooding along Bundy Canyon Road east of Interstate 15, and will enable a road widening to improve traffic flow. The project will replace an undersized roadside ditch with an underground storm drain capable of conveying 100-year flows from an existing outlet at Sellers Road, west to a connection at the I-15 ramp. The facility will be designed and constructed in conjunction with the Bundy Canyon Road widening project. The City of Wildomar will administer design and construction of the project using District funding up to 50% of flood control project cost via cooperative agreement. The City submitted 65% plans for review in September 2017, and hopes to finalize the agreement and award a construction contract in the next year.



Stoneman Channel Extension (3-6-10000-00)

This project is being pursued by the Riverside County Transportation Department with funding support from the District. This project is constructing improvements that extend an inverted street section approximately 2,600 feet northeasterly from Grand Avenue to Palomar Street to reduce erosion, provide enhanced access to existing residences, and helps keep sediment from the intersection of Grand Avenue. The District has executed an agreement with the Transportation Department to contribute no more than \$275,000 toward the project.

Water Conservation & Water Quality

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

The District is leading the efforts for the West Elsinore MDP Line A project to improve groundwater recharge. The goal of the project is to optimize the groundwater recharge in the area, however, the anticipated basin location for the project yielded poor recharge results. Therefore, the District took a step back and looked at other potential sites that it owns in the area: Leach and McVicker Basins. Both sites yielded high infiltration rates. The District is developing a Preliminary Design Report (PDR) which will analyze these additional sites, and determine the optimal location for groundwater recharge. The District will partner with Elsinore Valley Municipal Water District (EVMWD) and the City as the project progresses.