

Zone 3

Report to the Zone Commissioners Design and Construction Projects for Calendar Year 2009

By Dusty Williams, General Manager-Chief Engineer
January 2010

GENERAL:

Throughout the District (all Zones) during Calendar Year 2009, the Design and Construction Division completed four capital projects with a combined value of \$4.7 million. Two projects with a total contract value of \$8,500,000 are currently under construction. In Calendar Year 2009 the District also inspected and issued notices of completion for 20 developer-built projects with a total value of almost \$24 million.

Recent bids for District construction projects have shown that general contractors are becoming very competitive. The District will continue to try and leverage this dip in construction costs by pushing hard to complete designs and advertise projects while prices are low.

Twenty-five capital improvement projects in the FY 2009/2010 budget are either under active design or pre-design study at the District with five of those projects expected to be advertised for construction in Calendar Year 2010. The total construction contract cost of those five projects is estimated at around \$11 million. Another ten or so drainage projects are being managed by individual cities with the District participating in funding.

Additionally, we are also underway with six repair projects that require engineered drawings due to the severity of the damage or potential damage to our facilities. Deficiencies range from exposed and rusting rebar to undermined slope paving. As all in-house resources are devoted to our capital improvement projects, these six projects are being designed by outside consulting engineers.

Calendar Year 2010 should also see completion of significant changes at the District's office site. The proposed Low Impact Development (LID) Retrofit Project is a three part project. The completed project will convert the District's Market Street campus into a regional example of green development concepts. The upgraded facility will be used as a regional "green" training center for municipal employees, developers, engineers, and contractors throughout the Inland Empire and Orange County. Currently, there are limited locations and opportunities to demonstrate the proper application of LID BMPs. This facility is uniquely designed to accomplish both demonstration and monitoring of the effectiveness of LID practices. This project is intended to facilitate the support and implementation of LID BMPs by municipalities and developers. The cost of this project is being partially subsidized by a \$475,000 State Proposition 13 grant administered by SAWPA.

Ongoing Planning Work - Lakeland Village Master Plan of Drainage - The District has completed the preliminary engineering work for five alternatives that emphasize different goals and objectives (flood protection, water conservation, floodplain management and water quality) for the Lakeland Village Master Drainage Plan (MDP).

Alternative 1 is the no build alternative, in which there are no proposed improvements and flood protection is provided only by the existing drainage facilities in the area. These existing facilities include Lime Street Channel, Ortega Channel, Ortega Channel Laterals A and A-1, Ortega Channel Lateral A Debris Basin, Lakeland Village Channel, Stoneman Street Channel and Churchill Street Storm Drain. Alternative 2 is the implementation of mainline drainage facilities that will collect runoff from the Santa Ana Mountains, including any potential debris, and convey it to Lake Elsinore. Alternative 3 includes the same drainage facilities proposed in Alternative 2, but also incorporates open space areas that will be reserved by purchasing properties within the FEMA floodplain. Alternative 4 proposes several debris basins on the upstream end of the mainline drainage facilities to capture potential debris from the Santa Ana Mountains. This alternative also addresses water quality by proposing water quality basins downstream of existing developments. Alternative 5 includes a combination of water quality basins, debris basins, main line drainage facilities with laterals, and floodplain buy-outs.

Preparation of the MDP is jointly funded by the District and the Lakeland Village/Wildomar Redevelopment Project Area. A Request for Qualifications for firms to prepare the associated Environmental Impact Report has been circulated and it is anticipated a firm will be retained by May 2010 and the EIR completed in 2011. The EIR will be used to select the preferred alternative for the MDP.

Following is a status summary of the capital improvement projects for Zone 3:

Current Year Capital Projects (Budgeted FY 2007/2008)

1. **Lakeland Village Orange Street Lateral (3-8-0012-01)** - This small lateral to Lime Street Channel is 700 lineal feet of storm drain from existing Lime Street Channel, southwesterly along Fairview Street, then southeasterly along Orange Street. The Design mapping was completed in early FY2009/2010, design is well underway and drawings could be completed by summer 2010.



Orange Street January 20, 2010

2. **Arroyo Del Toro Channel (3-8-0170-01)** - This project is an open channel that collects a battery of culverts presently discharging flows under Interstate 15 onto the Elsinore Valley Cemetery and extending approximately 3,000 feet southwest to an outlet into the Collier Marsh area west of Riverside Drive. This project is a priority for the District. Staff has been studying numerous alignments and configurations to determine the most economical and feasible project and has met with affected property owners downstream of Collier Avenue. Staff has developed preliminary plans based on the preferred alignment and hydraulic considerations.



These plans include plan and profile sheets for the mainline and connector pipes, grading plans and traffic detour plans. Further work includes design of structural and miscellaneous details, review and coordination with outside agencies, and preparation of final costs and specifications. Environmental/CEQA Phase 1 and 2 assessments are presently underway. Also, a geotechnical investigation was performed in late 2007. Design details are currently being evaluated and the design is progressing. Because of the extremely limited funds in this zone, the District pursued the possibility of working with Caltrans to share in the funding of the project. Unfortunately due to the additional time required to get on to Caltrans' schedule and the State budget problems the District decided not to pursue State funding. During this past year progress has been disappointingly slow as we continue to work through environmental issues at the outlet area. Construction on the project should take place in approximately 2 years.

P8\128961