

Zone 4

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

By Dusty Williams, General Manager-Chief Engineer
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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.

Following is a status summary of the capital improvement projects for Zone 4:

Current Year Capital Projects (Budgeted FY 2009/2010)

1. **San Jacinto River, Stage 4 (4-8-0020-04)** - This project, a joint venture with the City of San Jacinto, was conceived as a multi-year plan to construct the ultimate levee system (approximately 1,200 feet river bottom width) between the existing Corps of Engineers' levee 9,500 feet upstream of State Street, and a point about 8,200 feet downstream of Sanderson Avenue, a distance of about 5 miles. Floodwalls on piles are required to be constructed over the Metropolitan Water District facilities just east of State Street.

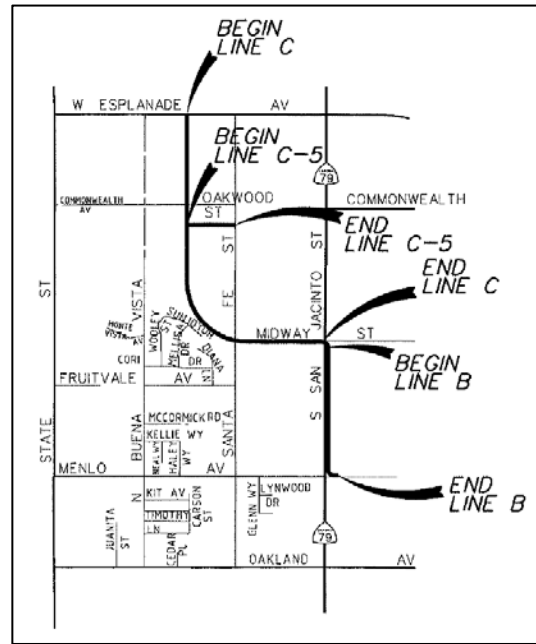
The District and the City began work on the project in 2000 after the Corps of Engineers prepared a Reconnaissance Study and determined there was no justification for Corps participation. The City, with funding from the District, contracted with CH2MHILL for preparation of a Biological Assessment of the area impacted by the proposed levee project. In December 2002, the District executed an agreement with the City to share the cost of design and construction of the proposed levee project up to a maximum of \$7 million. An amendment to that agreement is pending District Board approval. The amendment would raise the District's contribution to \$12 million, place the burden of property acquisition entirely on the City and establish the City as the Lead Agency for CEQA.

A preliminary design report was prepared by Webb Associates in 2004. Work on the Final Design and EIR commenced in 2007. The City entered into a contract for Final Design with prime consultant Webb Associates, and sub-consultants CHJ (geotechnical, special pile design), PACE (sediment transport) and Terrain Engineering (floodwall design). On March 3, 2009 the District entered into a 50% cost share agreement on the design work with the City, the agreement will be amended shortly to cover additional design work approved by the City Council on January 7, 2010. The most significant aspect of the additional design work was changing the preliminary alignment to avoid the Haringa Dairy. Plans are scheduled to be completed by July 2010.

Webb Associates is also primary consultant on the EIR document with Glen Lukos providing the biological survey data. The District covers 100% of the cost for the environmental work. An EIR Scoping session was held in April 2008. The environmental work is ongoing and complex as the project must address long-term maintenance and construction impacts to the Southwest Willow Flycatcher, least Bell's vireo, Los Angeles Pocket Mouse, San Bernardino Kangaroo Rat and riparian/riverine habitat. The EIR is scheduled to be considered by the City Council in November 2010.

Subject to the completion of right of way acquisition, construction is tentatively scheduled to begin in July 2011.

2. **San Jacinto MDP Lines C, B, C-5 (4-8-00124-02)** – This project begins at the upstream end of the District's existing Line C facility and extends south to Midway Street then east in Midway to South San Jacinto Street. This project will also build San Jacinto MDP Line B in South San Jacinto Street from Midway Street to Menlo Avenue and Lateral C-5 east to Santa Fe Street. This project originally included Lateral C-4 in Santa Fe Street but early investigation revealed that better value would be realized by building Line B to collect flows from the larger Park Hill basin watershed. To assure that we design adequate collection, we are extending the mapping limits to include Menlo Avenue east of South San Jacinto Street. We are presently working to finish the Preliminary Design Report so that alignments and facility type can be finalized. Although the San Jacinto Master Drainage Plan calls for open channel for all of Line C, this is still an open question.



3. **San Jacinto MDP Line G (4-8-00125-01)** - This project consists of a one-time contribution of \$1 million to the construction of an underground storm drain that extends from a proposed detention basin at the intersection of Potter Road and De Anza Drive then southwest in De Anza to Young Street. The City of San Jacinto is administering the project; the District will own and operate the facility upon completion of construction and the Potter Road Basin outfall. The District is in the process of reviewing construction drawings for the storm drain. The District's last contact with this project was plan check number four in December 2008. The construction schedule is controlled by the City of San Jacinto.
4. **Menifee - Hawthorne Avenue Storm Drain (4-8-00163-01)** - This project is an underground storm drain from an outlet north of Holland Road southerly in Hawthorne Avenue to a collection system south of Craig Avenue. The District secured an easement from the property owner (Audie Murphy Ranch SP) for the storm drain outlet. Fee title for the outlet area will soon pass to the Pechanga Tribe. Because this is culturally sensitive property, the District has spent considerable time this last year working with the Pechanga Indians to address potential resources that might be impacted by construction. We successfully prepared and executed a "Cultural Resources Treatment and Tribal Monitoring Agreement". We are working with the new City of Menifee to finalize the cooperative agreement. Plans are complete and the detailed specifications are written. This project will be ready for advertising in February 2010.



Flooding along Hawthorne Avenue



Flooding north of Holland Road

5. **Hemet MDP Line D, Stage 5 (4-8-00211-05)** - This project is an underground storm drain that extends from Stage 4 near Yale Street east in Stetson Avenue approximately 1 mile to Dartmouth Street. This project has been completed and the Board acted on the notice of completion on January 6, 2009. The final project cost was \$3,821,985.32. This final amount was 8.9% over the original awarded contract amount.

The largest share of extra costs on this project were associated with roadway paving. Per the cooperative agreement, the District partnered with the County Transportation Department to incorporate paving betterments (mainly consisting of a full width pavement overlay of Stetson Avenue).

Stetson Avenue Pre- and Post-Project



6. **Hemet MDP Line C, Stage 4 (4-8-00212-04)** – This project is an underground storm drain in Whittier Boulevard extending from the existing storm drain at Palm Avenue east to San Jacinto Street. Originally planned to extend only to Santa Fe Street the project limits have been extended at the request of the City of Hemet. Design mapping is underway and work on a preliminary design report could begin in FY 2010/2011.
7. **Little Lake MDP Line B (4-8-00265-01)** - This project is an underground storm drain extending from an existing storm drain in Meridian Street near Berkeley Avenue south in Meridian Street to Whittier Avenue. The preliminary alignment and pipe sizes for the Line B Storm Drain were established as part of an overall revision to the Little Lake Master Drainage Plan. Design work on the project has been on hold while the District works on more pressing projects but will likely restart in FY 2010/2011.
8. **Romoland MDP Line A (4-8-00310-01)** - This project is a major flood control project that involves the construction of the Line A system including Laterals A-2 and A-3. The project extends from the San Jacinto River near Goetz Road east approximately 6 miles to Juniper Flats Road and incorporates both lined and unlined open channel, underground storm drains and two major detention basins. This is a developer administered project whose costs will be jointly funded by a consortium of developers (aka the "Corporation"), the District (using Area Drainage Plan funds) and a Community Facilities District being formed by the District at the request of the developers. The CFD was formed on January 29, 2008, the plans were completed, and bids were opened in late spring 2008. The construction was broken into 4 separate contracts and the total cost of the four bids was \$43.5 million. Ultimately, the

Corporation elected not to award these contracts. Since mid-2008, construction has been on hold. The Developers are pursuing alternate means of financing the construction including federal stimulus dollars.

- 9. **Perris MDP Line Q (4-8-00512-01)** – This project, administered by the City, is an open channel along Nuevo Road from Dunlap Drive to Perris Valley Channel. The District contributed \$1,500,000 in May 2009 when construction began. The project is now complete, final walkthroughs are being scheduled at press time.

- 10. **Moreno MDP Line K-1 (4-8-00766-01)** - From Line K east in Ironwood Avenue to Petit Street. This project is being designed by a consultant as part of the work the City of Moreno Valley is doing in association with improvements to the Moreno Beach Drive & 60 freeway interchange.

- 11. **Moreno MDP Line K (4-8-00767-01)** - This project is an open channel extending from Nason Basin northeasterly approximately 2,500 feet to Ironwood Avenue. Design mapping for this project is complete. The majority of the effort to date has been devoted to identification of alternatives in consultation with the City. We expect to publish a Preliminary Design Report (PDR) in May 2010. The PDR will establish the recommended alternative and its footprint. This will enable the District to move forward with final design and to resolve regulatory issues.

