

Central Services
Joan Araujo, Director

Engineering Services
Christopher Cooper, Director

Roads & Transportation
Chris Hooke, Acting Director

Water & Sanitation
Joseph Pope, Director

Watershed Protection
Glenn Shephard, Director

May 18, 2021

Board of Supervisors
Ventura County Watershed Protection District
800 South Victoria Avenue
Ventura, California 93009

Subject: Confirm Modification Nos. 6 through 8 to Professional Service Contract No. AE13-062 with Tetra Tech, Inc. for Engineering Services for the Santa Clara River Levee (SCR-1) Project Previously Approved by a Deputy Purchasing Agent; Approval of and Authorization for the Ventura County Public Works Agency Director or His Designee to Execute Modification No. 9 to the Contract for the Additional Contract Amount of \$ 262,679.50, for the Total Contract Not to Exceed Amount of \$ 2,313,204.50; Contract No. AE13-062; Project No. P6082035 ; Supervisorial District Nos. 1, 3, and 5; Watershed Protection District Zone 2

Recommendations:

It is recommended that your Board:

1. Confirm Modification Nos. 6 through 8 to Professional Services Contract No. AE13-062 with Tetra Tech, Inc. (attached hereto as Exhibits 3 through 5) for the Santa Clara River Levee for the Engineering Services for the additional amount of \$135,819, as previously approved by a Deputy Purchasing Agent in the Public Works Agency.
2. Approve Modification No. 9 (Exhibit 6) to Professional Service Contract No. AE13-062 with Tetra Tech, Inc. for the Santa Clara River Levee (SCR-1) to add a new task for the Consultant to provide engineering, architectural, and landscape architectural services to develop and incorporate educational betterments and community enhancements for the additional amount of \$262,679.50.
3. Authorize the Ventura County Public Works Agency Director or his designee to execute Modification No. 9 (Exhibit 6) to Professional Service Contract No. AE13-062.



Fiscal/Mandates Impact:

Mandatory: No
Source of Funding: Watershed Protection District Zone 2
Funding Match Required: No
Impact on Other Departments: None

Summary of Revenues and Costs:	<u>FY 2020-21</u>	<u>FY 2021-22</u>
Revenue:	\$ 0	\$ 0
Costs:		
Direct	\$ 262,680	\$ 0
Indirect-Agency Dept.	\$ 0	\$ 0
Indirect-County CAP	\$ 0	\$ 0
 Total Costs	 \$ 262,680	 \$ 0
Net District Costs	\$ 262,680	\$ 0
Recovered Indirect Costs	\$ 0	\$ 0

Current FY Budget Projection:

Current FY 2020-21 Budget Projection for Watershed Protection Zone 2 - Unit 4224				
	Adopted Budget	Adjusted Budget	Projected Budget	Estimated Savings (Deficit)
Appropriations	\$ 22,822,600	\$ 24,108,738	\$ 13,294,100	\$ 10,814,638
Revenue	\$ 12,033,600	\$ 12,033,600	\$ 7,633,600	\$(4,400,000)
Net Cost	\$ 10,789,000	\$ 12,075,138	\$ 5,660,500	\$ 6,414,638

Sufficient appropriations are available in the FY 2020-21 Zone 2 Projected Budget.

Discussion:

The SCR-1 levee, constructed in 1961 by the U.S. Army Corps of Engineers (USACE) and owned and maintained by the Watershed Protection District (WP), extends from Highway 101 to South Mountain along the east bank of the Santa Clara River. It protects from flooding parts of the City of Oxnard, the Riverpark development, and unincorporated areas, including the community of El Rio. In 2010 the Federal Emergency Management Agency (FEMA) notified Ventura County that some of its levees, including SCR-1, would be de-accredited, because in their current condition, they do not meet Federal levee certification regulatory requirements found in 44CFR65.10. As of the present time, FEMA has not released a time estimate when they next plan on updating the existing Digital Flood Insurance Rate Map (DFIRM) panel for SCR-1, but should that happen before the proposed levee rehabilitation work is completed, then the updated mapping panel would delineate areas on the landward side of the levee as being in the Special Flood Hazard Area (SFHA), resulting in a mandatory flood insurance purchase by property owners with Federally-backed mortgages.



On March 14, 2017, your Board approved acceptance of a \$3,547,863 Local Levee Assistance Program (LLAP) grant from the California Department of Water Resources (DWR) for two Local Levee Evaluation and two Local Levee Critical Repair Projects. SCR-1 is one of the four projects for which these funds were awarded.

On June 25, 2013, your Board approved a contract with Tetra Tech, Inc. of Irvine for \$623,874 and confirmed on May 9, 2017 five modifications to that contract for a revised total fee of \$1,914,706 which together resulted in completion of the initial appraisal report, reconnaissance report, project management plan, Interim Risk Reduction Measures Plan (IRRM), Flood Warning and Emergency Evacuation Plan (FWEPP), economic analysis report and the basis of design report, which included an alternatives analysis. It also provided the data needed to restore SCR-1 to “active” status in the PL 84-99 program, rendering it eligible for federal funding for repairs if damaged during a flood event in addition to funding for final design of the SCR-1 levee rehabilitation project, including completion of necessary technical studies, and preparation of a permit application for modifications to the SCR-1 levee in accordance with Title 33 of the United States Code, Section 408.

After Modification 5 and in response to substantial public interest, the WP engaged with stakeholders between June 2018 and May 2019 to explore community-desired betterments that could be incorporated into the levee project. The improvements discussed included providing stormwater treatment and groundwater recharge, a levee trail, a soil overlay of the proposed soil cement levee to support native vegetation, educational kiosks related to river health and function, blinds for observing wildlife, and an outdoor amphitheater adjacent to Rio Del Sol School for use by the Rio School District and/or the public.

Since then three contract modifications totaling \$135,819 have been issued in accordance with the policy adopted by your Board on February 6, 1996, resulting in the current contract amount of \$2,050,525. These modifications provided for; 1. modelling analysis using the Event Mean Concentrations (EMC) for water quality characterization and treatment evaluation, 2. amending the Economic Analyses for Levee Extension to account for the potential benefits to protect the structures and contents of an additional 527 residential units, six additional commercial buildings, and one public structure constructed after completion of the original economic analysis, and 3. the designing of additional access ramps, one in accordance with Americans with Disabilities Act (ADA) requirements, roads, turnarounds, and stormwater quality treatment features in addition to developing exhibits, presenting information, and participating in all the stakeholder improvement meetings.

The revised economic analysis, conducted by applying USACE’s methods, determined the present value of annualized benefits as \$4,587,000 taking into account potential damages to 1,939 residential, commercial, industrial, and public structures and the present value of annualized costs to remediate the levee as \$2,353,000 with resulting benefit-cost ratio for the feasibility-level design of 1.95. This benefit-cost ratio incorporates



realignment of the SCR-1 levee upstream of Central Avenue Drain. From the current levee penetration for the Central Avenue Drain, the proposed realignment would extend east along the northerly edge of the Central Avenue Drain and tie into high ground near Vineyard Avenue. The upstream portion of the existing SCR-1 levee would not be included in the rehabilitation efforts.

Transmitted herewith is Modification No. 9 (Exhibit 6) to the contract to provide the engineering, architectural, and landscape architectural services required to develop and incorporate educational betterments and community enhancements in accordance with Title 33 of the United States Code, Section 408, for review and concurrence approval by the USACE as part of the 408 Permit process required to advance levee rehabilitation project design forward.

Educational betterment features, subject to available future stakeholder funding and regulatory approvals, are intended to be constructed behind the new Rio Del Sol School S.T.E.A.M. Academy and west of Windrow Park to provide local outdoor learning opportunities. Educational betterments include an outdoor amphitheater, interpretive stations with education signage, bird blinds (bird viewing structures), connection or crossing between the school and the levee, native landscaping in concrete planter boxes compatible with levee features and may include a 3H:1V soil overlay planted with native grasses adjacent to the amphitheater (approximately 800 feet) or along the entire school property.

These educational betterment features were developed in close consultation with and reflect the support of the Rio School District (RSD) as part of an ongoing joint project development stakeholder partnership with WP. The RSD funded the development educational betterments' concept proposal design and infographic story-board presentation documents utilized in support of WP's 408 Permit design submittal packages being prepared for presentation to the United States Army Corps of Engineers (USACE). Modification No. 9 (Exhibit 6) results in a net increase of \$262,679.50 to the current contract amount, for a revised total fee of \$2,313,204.50.

This letter has been reviewed by the County Executive Office, the Auditor-Controller's Office, and County Counsel. The Modification is on a standard form previously reviewed by County Counsel.

If there are any questions regarding this item, please contact me at (805) 654-2040.



Sincerely,

A handwritten signature in blue ink, appearing to read "Glenn Shephard".

Glenn Shephard, P.E.
Director, Watershed Protection

Attachments:

- Exhibit 1 – Vicinity Map
- Exhibit 2 – Location Map
- Exhibit 3 – Modification No. 6
- Exhibit 4 – Modification No. 7
- Exhibit 5 – Modification No. 8
- Exhibit 6 – Modification No. 9

