



# Sutter Butte Flood Control Agency

Board of Directors Agenda – Regular Meeting, June 14, 2017, 1p.m.  
City of Yuba City Council Chambers - 1201 Civic Center Blvd., Yuba City, CA

The agenda is posted in the building of the Sutter Butte Flood Control Agency at 1441 Garden Highway, Yuba City, and at the Sutter County Library, 750 Forbes Avenue, Yuba City. The agenda summary, backup materials, and approved minutes are also posted on the Sutter Butte Flood Control Agency website at [sutterbutteflood.org](http://sutterbutteflood.org). Materials related to an item on this agenda and submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the office of the Board Clerk at 1441 Garden Highway, Yuba City, during normal business hours. In compliance with the American with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need, disability related modifications or accommodations to participate in this meeting, please contact the SBFCA office at 530-755-9859 or [admin@sutterbutteflood.org](mailto:admin@sutterbutteflood.org). Requests must be made one full business day before the start of the meeting.

#### County of Sutter

Dan Flores  
Larry Munger  
Alt. Mat Conant  
Alt. Jim Whiteaker

#### County of Butte

Bill Connelly  
Steve Lambert

#### City of Yuba City

John Buckland  
Stan Cleveland  
Alt. Manny Cardoza  
Alt. Shon Harris

#### City of Live Oak

Jason Banks  
Alt. Lakhvir Ghag

#### City of Gridley

Frank Hall  
Alt. Gary Davidson

#### City of Biggs

Bo Sheppard  
Alt. Roger Firth

#### Levee District 1

Francis Silva  
Charlie Hoppin  
Alt. Sally Serger  
Alt. Drew Stresser

#### Levee District 9

Mike Morris  
Chris Schmidl  
Alt. David Schmidl

Persons wishing to address the Board during consideration of matters listed on the agenda will be allowed to do so. Testimony should always begin with the speaker giving his or her name and place of residence. Requests for assistive listening devices or other accommodations, such as interpretive services, should be made through the Sutter Butte Flood Control Agency office at 530-755-9859. Requests should be made at least 72 hours prior to the meeting. Later requests will be accommodated to the extent feasible.

#### **REGULAR MEETING/CALL TO ORDER**

- Roll Call
- Pledge of Allegiance

#### **CONSENT CALENDAR**

The Consent Calendar groups together those items which are considered noncontroversial or for which prior policy direction has been given to staff and that require only routine action by the Board. The Chair will advise the audience that the matters may be adopted in total by one motion; however, the Board may, at its option or upon request of a member of the public, consider any matter separately.

1. Approval of the Minutes for the May 10, 2016 Board Meeting
2. Delegation of Authority to Executive Director to Sign a Lease with State Lands Commission

3. Approval of Resolution for the Levy and Collection of Assessments for the Sutter Butte Flood Control Agency Assessment District in the 2017-18 Fiscal Year in Sutter County and Butte County
4. Consideration of Continuing Emergency Action

#### **PRESENTATION, DISCUSSION & ACTION ITEMS**

5. Approval of Task Order 22 with HDR Engineering for engineering services associated with the design and construction of Reach 14 to 16 Cutoff Wall Rehabilitation Project
6. Receive and File Monthly Financial Report

#### **INFORMATIONAL AND POSSIBLE APPROVAL ITEMS**

7. Program/Project Update
8. Other Reports from Agency Staff and Consultants
9. Report by the Citizens' Assessment District Advisory Committee (CADAC)
10. Report by Member and Partner Agencies

#### **CORRESPONDENCE**

11. Report on Correspondence Sent by and Received by the Board

#### **PUBLIC COMMENT**

Members of the public will be allowed to address the Sutter Butte Flood Control Agency's Board of Directors on items of interest to the public that are within the subject matter jurisdiction of the Board. Any member of the audience who may wish to bring a matter before the Board that has not been placed on the agenda may do so at this time; however, State law provides that no action may be taken on any item not appearing on the posted Agenda.

#### **ADJOURNMENT**

The next regularly scheduled Board of Directors meeting will be held on Wednesday, July 12, 2017 at 1p.m., Yuba City Council Chambers – 1201 Civic Center Blvd., Yuba City, CA 95993



## Sutter Butte Flood Control Agency

Board of Directors Minutes – Regular Meeting, May 10, 2017, 1p.m.  
City of Yuba City Council Chambers - 1201 Civic Center Blvd., Yuba City, CA

The Sutter Butte Flood Control Agency (Agency) Board of Directors (Board), State of California, met on the above date at 1 p.m. at the City of Yuba City Council Chambers - 1201 Civic Center Boulevard, Yuba City, CA.

These minutes do not represent a transcript of the meeting and are intended to be a summary of the most important points. For a complete record, please refer to the video recording of the meeting, which is posted on SBFCA's website: <http://sutterbutteflood.org/board/meetings-agendas/>

### MEMBERS PRESENT

County of Sutter:	Dan Flores, Mat Conant
County of Butte:	Bill Connelly
City of Yuba City:	John Buckland, Stan Cleveland
City of Live Oak:	Jason Banks
City of Biggs:	Bo Sheppard
City of Gridley:	Frank Hall
Levee District 9:	Mike Morris, Chris Schmidl
Levee District 1:	Francis Silva, Charlie Hoppin

**MEMBERS ABSENT:** Steve Lambert, Larry Munger

**STAFF PRESENT:** Mike Inamine, Executive Director; Michael Bessette, Director of Engineering; Andrea Clark, Agency Counsel; Scott Shapiro, Agency Counsel; Kim Floyd, Public Outreach Manager; and Terra Yaney, Board Clerk

### MEETING/CALL TO ORDER

At 1 p.m., Director Stan Cleveland opened the meeting and led the group in the pledge of allegiance.

### PUBLIC HEARING

#### 1. Approval of Final Amended 3-year Budget Covering 2016-17 through 2018-19

Budget Manager Seth Wurzel provided a power point presentation for the recommendation of the Final Amended 3-year budget covering the 2016-17 through 2018-19. He explained the process and purpose for budget amendments and expenditure details. The budget approval process is a two-step process with preliminary approval on April 11. He provided budget comparison summaries for the 5 and 3-year expenditures for all allocations of funds. He also provided a chart outlining the SBFCA Program Budget Organization.

Director Charlie Hoppin asked how the cost share for the NED was calculated: is it based on actuals or on a percentage.

Executive Director Mike Inamine answered that the USACE estimate is higher and SBFCA is working through the cost estimate with the USACE based on actual costs.

Director Stan Cleveland opened the public hearing and invited members of the public to provide comment.

**No public comment.**

The public hearing was closed.

The entire report, along with a PowerPoint presentation is available on the SBFCA website at:  
<http://sutterbutterflood.org/board/meetings-agendas/>

**A motion to approve the Final Amended 3-Year Budget covering 2016-17 through 2018-19 was made by Director Mat Conant and seconded by Director Mike Morris. Motion passed with no objection. The item was approved as follows:**

- Jason Banks - yes
- John Buckland - yes
- Stan Cleveland- yes
- Mat Conant - yes
- Bill Connelly - yes
- Dan Flores - yes
- Frank Hall - yes
- Charlie Hoppin - yes
- Mike Morris - yes
- Chris Schmidl -yes
- Bo Sheppard - yes
- Francis Silva - yes

#### **CONSENT CALENDAR**

- 2. Approval of the Minutes for the April 12, 2017 Board Meeting**
- 3. Approval of Amendments to Consultant Agreement for Agency Support for Fiscal Year 2017-18. (Pulled from Consent Calendar at the request of a member of the public for further discussion and explanation)**
  - 6<sup>th</sup> Amendment to the agreement between the Sutter Butte Flood Control Agency and Kim Floyd Communications.
  - 2<sup>nd</sup> Amendment to the agreement between the Sutter Butte Flood Control Agency and NBS Government Finance Group.
  - 12<sup>th</sup> Amendment to the agreement between the Sutter Butte Flood Control Agency and Downey Brand LLP.
  - 10<sup>th</sup> Amendment to the agreement between the Sutter Butte Flood Control Agency and Larsen Wurzel and Associates, Inc.
  - 15<sup>th</sup> Amendment to the agreement between the Sutter Butte Flood Control Agency and Peterson Brustad, Inc.
- 4. Consideration of Continuing Emergency Action**
- 5. Approval of Resolution Designating Applicant's Agent for the purpose of obtaining Public Assistance Funding from CalOES and/or FEMA under all open and future disasters for up to 3-years.**

Items 2, 4 and 5 of the Consent Calendar were approved in one motion. Item 3 was pulled from the consent calendar at the request of a member of the public. A motion to approve was made by Director Dan Flores and seconded by Director Chris Schmidl. Motion passed with no objection. The Consent Calendar was approved as follows:

- Jason Banks - yes
- John Buckland - yes
- Stan Cleveland- yes
- Mat Conant - yes
- Bill Connelly - yes
- Dan Flores - yes
- Frank Hall - yes
- Charlie Hoppin - yes
- Mike Morris - yes
- Chris Schmidl -yes
- Bo Sheppard - yes
- Francis Silva - yes

#### **PUBLIC COMMENT**

Sutter County resident Pat Miller provided public comment on consent calendar item three. Ms. Miller requested further background into the amendments to consultant agreements listed under item three.

Executive Director, Mike Inamine explained that while construction is winding down there is still a need to seek additional funding sources to complete the Federal Project and critical repair projects.

Budget Manager Seth Wurzel provided a PowerPoint presentation summarizing the 2017-18 operational amendments and scope of work under each consultant agreement. The entire report, along with a PowerPoint presentation is available on the SBFCA website at: <http://sutterbutterflood.org/board/meetings-agendas/>

Sutter County resident Elaine Miles provided public comment.

Mr. Wurzel responded to Ms. Miles' comments

Director Jason Banks asked to see a comparison of the expenditures from last fiscal year to the current fiscal year.

The discussion related to this item can be viewed in its entirety on the SBFCA website: <http://sutterbutteflood.org/board/meetings-agendas/>.

**A motion to approve the Amendments to Consultant Agreement for Agency Support for Fiscal Year 2017-18 was made by Director Dan Flores and seconded by Director Mike Morris. Motion passed with no objection. The item was approved as follows:**

- Jason Banks - yes
- John Buckland - yes
- Stan Cleveland- yes
- Mat Conant - yes
- Bill Connelly - yes
- Dan Flores - yes
- Frank Hall - yes
- Charlie Hoppin - yes
- Mike Morris - yes
- Chris Schmidl -yes
- Bo Sheppard - yes
- Francis Silva - yes

#### **PRESENTATION, DISCUSSION & ACTION ITEMS**

Executive Director Mike Inamine indicated that the following additional items were added to the agenda after distribution. The updated agenda was provided to the Board of Directors and made available for public inspection in the office of the Board Clerk, Sutter County Library and posted on the SBFCA website.

#### **5a Federal Sutter Basin Flood Risk Management Project Update**

Executive Director Mike Inamine introduced the item and provided an overview on the Sutter Basin Flood Risk Management Project (Star Bend to Laurel Avenue). He reported HDR Engineering completed a 65-percent design for the Laurel to Star Bend area of the Feather River West Levee Project and submitted it in March of 2012 for Agency and partner agency review. Prior to that date, an Alternatives analyses report was prepared for this area within the HDR team's Pre-design Formulation Report (PFR), dated August 2011. In February of 2012, the HDR team prepared 65-percent plans for the project area.

SBFCA has coordinated with the US Army Corps of Engineers (USACE) on advancing the 65-percent designs for the Laurel Avenue to South Star Bend project through final design and construction. The scope of work for the design of the project includes advancing the 65-percent plans completed in February of 2012 to final design. The work will be done by the SBFCA Design Team on behalf of USACE. 95-percent, 100-percent, and Final Design (Ready to Advertise) submittal packages are planned as a part of the project.

#### **5b Approval of Task Order with HDR to Advance Federal Project**

Executive Director Mike Inamine introduced the item and provided background. The discussion related to this item can be viewed in its entirety on the SBFCA website: <http://sutterbutteflood.org/board/meetings-agendas/>.

A motion to approve the Task Order with HDR to Advance Federal Project was made by Director Dan Flores and seconded by Director Mike Morris. Motion passed with no objection. The item was approved as follows:

- Jason Banks - yes
- John Buckland - yes
- Stan Cleveland- yes
- Mat Conant - yes
- Bill Connelly - yes
- Dan Flores - yes
- Frank Hall - yes
- Charlie Hoppin - yes
- Mike Morris - yes
- Chris Schmidl -yes
- Bo Sheppard - yes
- Francis Silva - yes

**5c Update on the Agricultural Floodplain Ordinance Task Force and H.R.2170**

Executive Director Mike Inamine introduced the item and provided background.

Sutter County resident Elaine Miles provided public comment.

The discussion related to this item can be viewed in its entirety on the SBFCA website:

<http://sutterbutteflood.org/board/meetings-agendas/>

**5d Other Issues of Interest to SBFCA from Cap-to-Cap Program**

Agency Council Scott Shapiro provided an overview of meetings held in Washington D.C. from April 29-March 3, 2017. The presentation can be viewed in its entirety on the SBFCA website:

<http://sutterbutteflood.org/board/meetings-agendas/>.

**No public comment.**

**INFORMATIONAL AND POSSIBLE APPROVAL ITEMS**

**6. Receive and File Monthly Financial Report**

Budget Manager Seth Wurzel presented the monthly financial report for March and answered questions regarding operating revenue of advanced funding. The entire report, along with a PowerPoint presentation is available on the SBFCA website at: <http://sutterbutteflood.org/board/meetings-agendas/>

**No public comment.**

**No action required.**

**7. Program/Project Update**

Director of Engineering Michael Bessette gave a presentation outlining the recent and ongoing activities related to the winter storm events. He reported that staff and the design team continue to review and analyze storm related damage sites and coordinate with both the State and Federal government on repair efforts. In addition to the advance measure projects, he highlighted the completion of other improvement projects. He reported that work on the Completion Projects is progressing; the construction of the Completion Projects will be ongoing through July.

The entire report, along with a PowerPoint presentation, is available on the SBFCA website at:

<http://sutterbutteflood.org/board/meetings-agendas/>

**8. Other Reports from Agency Staff and Consultants**

**Nothing to report.**

**9. Report by the Citizens' Assessment District Advisory Committee (CADAC)**

**Nothing to report.**

**10. Report by Member and Partner Agencies**

Nothing to report.

**CORRESPONDENCE**

**11. Report on Correspondence Sent by and Received by the Board**

Nothing to report.

**PUBLIC COMMENT**

No public comment.

**ADJOURNMENT**

With no further business coming before the Board, the meeting was adjourned at 2:51 p.m.

ATTEST BY: \_\_\_\_\_

Terra Yaney, Board Clerk

\_\_\_\_\_  
Larry Munger, Board Chair



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

**TO:** Board of Directors

**FROM:** Mike Inamine, Executive Director  
Andrea Clark, General Counsel

**SUBJECT:** **Approval of State Lands Commission Lease and Related Documents for Oroville Wildlife Area Flood Stage Reduction Project**

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## **Recommended Action**

Approve Resolution 2017-03, which grants authority to the Executive Director to execute, upon review and approval of counsel, a lease with the State Lands Commission, as well as any related documentation, which owns property on which SBFCA will be constructing the Oroville Wildlife Area Flood Stage Reduction Project.

## **Background**

The Oroville Wildlife Area Flood Stage Reduction Project is a multi-benefit project that makes hydraulic improvements to connect the Feather River to the OWA. As part of these improvements, SBFCA would construct a notch through an existing berm to connect the river to the interior of the OWA, install culverts and perform associated grading. This portion of the project will take place within the jurisdiction of the State Lands Commission (SLC), and the SLC requires a lease before SBFCA can carry out the work.

The Commission wishes to approve the lease at its June meeting and requires evidence, through a resolution, that SBFCA's Executive Director has authority to execute the lease and any related documentation. SBFCA staff and counsel have reviewed the proposed lease from SLC and are in the process of ensuring that the lease provisions are acceptable to SBFCA.

## **Fiscal Impact**

Approval of the attached resolution authorizes the execution of the subject lease. The lease terms do not require payment for consideration of leasehold interest. Approval of the attached resolution has no net budgetary impact to the Board approved Final Three-Year Budget.

## **Attachments**

1. Resolution 2017-03
2. Draft lease between State Lands Commission and Sutter Butte Flood Control Agency

**RESOLUTION NO. 2017-\_\_\_\_\_**

**RESOLUTION BY THE BOARD OF DIRECTORS OF THE  
SUTTER BUTTE FLOOD CONTROL AGENCY  
GRANTING AUTHORITY TO ITS EXECUTIVE DIRECTOR TO EXECUTE A LEASE  
AND ASSOCIATED DOCUMENTATION WITH THE STATE LANDS COMMISSION  
FOR THE OROVILLE WILDLIFE AREA FLOOD STAGE REDUCTION PROJECT**

WHEREAS, the Sutter Butte Flood Control Agency (“SBFCA”) proposes the Oroville Wildlife Area Flood Stage Reduction Project (“Project”) to reconnect the Oroville Wildlife Area (“OWA”) D-Unit to the Feather River and decrease flood stages within the main channel, restore riparian and fish habitat, and reduce post-flood maintenance and repairs; and

WHEREAS, part of the Project will take place within the jurisdiction of the State Lands Commission (“SLC”); and

WHEREAS, the SLC requires a lease prior to construction of those Project elements within its jurisdiction; and

WHEREAS, this resolution grants to SBFCA’s Executive Director the authority to execute such a lease and any associated documentation.

**NOW, THEREFORE, BE IT RESOLVED THAT:**

The Board of Directors of the Sutter Butte Flood Control Agency hereby authorizes its Executive Director to execute a lease with the State Lands Commission, as well as any related documentation, related to the Oroville Wildlife Area Flood Stage Reduction Project.

Approved this 14<sup>th</sup> day of June, 2017.

Ayes: \_\_\_\_\_

Noes: \_\_\_\_\_

Absent: \_\_\_\_\_

\_\_\_\_\_  
Larry Munger , Chair

APPROVED AS TO FORM  
GENERAL COUNSEL

By: \_\_\_\_\_  
ANDREA P. CLARK



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

**TO:** Board of Directors

**FROM:** Mike Inamine, Executive Director  
David Schroeder, NBS

**SUBJECT:** Approval of Resolution for the levy and collection of 2017-18 Fiscal Year assessments for the Sutter Butte Flood Control Agency Assessment District in Sutter and Butte Counties

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## **Recommendation**

Approve resolution for levy and collection of Sutter Butte Flood Control Agency's assessments in Fiscal Year 2017-18 in Sutter and Butte counties. The assessments will be levied at the rate specified in the Final Engineer's Report.

## **Background**

On July 14, 2010, after completion of a voter approved Proposition 218 election, the SBFCA Board approved Resolution 2010-04 adopting the Final Engineer's Report and forming the Sutter Butte Flood Control Agency Assessment District. The new district would collect approximately \$6.6 million per year for an estimated 33 years, which would fund the local share of the proposed activities. By resolution, the Board has authorized the levy and collection of the assessment for the past five fiscal years.

## **Discussion**

The attached resolution authorizes the assessment roll of all parcels subject to the SBFCA Assessment District assessments to be filed with the Sutter County Auditor-Controller and Butte County Auditor-Controller for Fiscal Year 2017-18.

## **Fiscal Impact**

Approval of the attached resolution authorizes the levy of assessments which generates approximately \$6.6 million in revenue. The approved budget reflects \$6.5 million of assessment revenue in Fiscal Year 2017-18 within SBFCA's operational and capital funds (combined). The first \$750,000 is to be apportioned to SBFCA Operating Fund (730) with the remaining funds is to be appropriated to SBFCA's Capital Fund. Approval of the recommendation is consistent with the approved budget. Approval of the resolution is also consistent with covenants made within the outstanding bond indenture agreements related to SBFCA's outstanding debt obligations.

**SUTTER BUTTE FLOOD CONTROL AGENCY  
RESOLUTION 2017-\_\_\_\_\_**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF  
THE SUTTER BUTTE FLOOD CONTROL AGENCY  
ORDERING LEVY OF ASSESSMENTS WITHIN THE SUTTER-BUTTE FLOOD CONTROL AGENCY  
ASSESSMENT DISTRICT FOR FISCAL YEAR 2017-18**

WHEREAS, the Sutter Butte Flood Control Agency (“Agency”) is a Joint Powers Authority created in 2007 to finance and construct levee improvements in the Sutter Basin; and

WHEREAS, the Board of Directors of the Agency, after a public hearing and voter election in compliance with Proposition 218 and pursuant to California Government Code Sections 54710, 54710.5 and 54718, adopted Resolution 10-004 approving the Final Engineer’s Report (“Engineer’s Report”) for the Sutter Butte Flood Control Agency Assessment District (“Assessment District”), formed the Assessment District and ordered the levy of assessments in Fiscal Year 2010-11 at the rates specified in the Engineer’s Report.

WHEREAS, the Agency agrees that it shall be solely liable and responsible, and will defend and hold the County of Butte harmless from any liability as a result of claims or claims for refunds and related interest due filed by taxpayers against any assessment placed on the roll for the Agency by the County.

WHEREAS, on June 1, 2013, the Agency entered into an Indenture of Trust with Union Bank, NA related to the issuance of its Series 2013 Assessment Revenue Bonds and within that Indenture of Trust made a covenant to levy and collect the assessments in order to make debt service payments on the Bonds.

WHEREAS, on June 1, 2015, the Agency entered into an Indenture of Trust with Union Bank, NA related to the issuance of its Series 2015 Assessment Revenue Bonds and within that Indenture of Trust made a covenant to levy and collect the assessments in order to make debt service payments on the Bonds.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The above recitals are true and correct.
2. The assessments for fiscal year 2017-18 shall be levied at the rate as specified in the Engineer’s Report, using the method for apportioning such assessments as provided in the Engineer’s Report. The assessments are levied without regard to property valuation.
3. The Agency staff is directed to file or cause to be filed and to take or cause to be taken all actions necessary to allow collection of the assessment, including the filing of a certified copy of this Resolution with the Auditor/Controller of Sutter and Butte Counties (the “County Auditor/Controller”). Upon such filing, the County Auditor/Controller shall enter on the County tax roll opposite each lot or parcel of land in the Assessment District the amount of assessment



I, \_\_\_\_\_, Clerk of the Board of Directors of the Sutter Butte Flood Control Agency, do hereby certify that the foregoing is a true and correct copy of Resolution No. 2017- adopted by the Board of Directors of the Sutter Butte Flood Control Agency, California, at a regular meeting thereof, held on the 14th day of June, 2017 by the following vote:

AYES:

NOES:

ABSENT:

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BOARD CLERK



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

**TO:** Board of Directors

**FROM:** Mike Inamine, Executive Director  
Andrea Clark, Agency Counsel

**SUBJECT:** Consideration of Emergency Action and Adoption of Amended Resolution No. 2017-01

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## **Recommendation**

Determine by a 4/5th vote that there is a need to take necessary actions due to emergency conditions and adopt Amended Resolution No. 2017-01.

## **Background**

At its February 15, 2017 meeting, the SBFCA board was updated on the unexpected, sudden and volatile conditions at Oroville Dam, where both the service and emergency spillways had lost full functionality and nearly 200,000 residents in areas downstream of the dam had been evacuated due to concerns about the emergency spillway. Due to the loss of full functionality of the spillways, and the uncertainty surrounding such functionality over the remainder of the flood season, the SBFCA board passed Resolution No. 2017-01, declaring that an emergency existed for purposes of the Public Contract Code in order to approve emergency levee repair and protection work at various locations on the Feather River. The resolution set forth facts to demonstrate that the emergency conditions did not allow for a delay resulting from competitive bidding, and were necessary to respond to the emergency.

Concurrent and subsequent to the declared emergency, high water conditions have caused substantial damage to approximately 2.9 miles of levees in downtown Yuba City between Gilsizer Slough and Whitaker Hall that must be immediately repaired.

SBFCA has substantially carried out the actions described in Resolution No. 2017-01, including measures along reaches encompassing the Laurel, Cypress, and Star Bend South levee sites, Gilsizer Slough and Teegarden Way within the limits of Yuba City. That work is complete only as an interim measure; the levee reach between Gilsizer and Teegarden Avenue (landside of an existing USACE slurry wall) has subsequently sustained significant damage resulting in a dangerous condition that must be immediately repaired prior to the next flood season or an unanticipated release from Oroville Dam. Contributing to this risk are the record snowpack conditions in the Sierras that could produce high flows, as well as the uncertainty associated with the ongoing, emergency reconstruction of the Oroville spillways. At a lesser priority, damage to the levee between Teegarden and Whiteaker Hall in Yuba City also requires immediate remediation. Failure to immediately repair these reaches of levees during this year's shortened construction season imperils the lives of 70,000 people who reside immediately landside. A sudden, underseepage failure--the most probable failure mode for this reach of levee--could occur without warning in one of the most densely populated locations on the Feather River. Such an event would likely result in loss of life.

Under the Public Contract Code, when a public agency takes action directly related to and required by that emergency, the agency must review the emergency action at every regularly-scheduled meeting thereafter

until the action is terminated, to determine that there is a need to continue the action. Although Resolution No. 2017-01 is applicable to the emergency situation with the levee reaches between Gilsizer Slough and Whiteaker Hall, the conditions and risks associated with those levee reaches are slightly different than those associated with the original resolution. More specifically, Resolution No. 2017-01 refers to an emergency associated with this past flood season, while the amended resolution refers to repairs to levee reaches between Gilsizer Slough and Whiteaker Hall that must be completed before the **next** flood season, which begins in November 2017. Nonetheless, many of the same events that justified the enactment of Resolution No. 2017-01 also remain applicable to these repairs, including the Governor's February 12 state of emergency proclamation.

In light of the slightly different nature of the risk associated with the levee reaches between Gilsizer Slough and Whiteaker Hall and the continued relevance of the conditions discussed in Resolution No. 2017-01, staff recommends that the board adopt an amended version of Resolution No. 2017-01 ("Amended Resolution No. 2017-01"). The board can meet at a special meeting or at its next regularly-scheduled meeting to again review the emergency action and determine whether to terminate it at that time.

#### **Fiscal Impact**

The Board's decision to adopt Amended Resolution 2017-01 does not authorize any additional funding beyond the Board's initial authorization of \$5,000,000 for levee fortification measures and the Board's increase of appropriations by \$500,000 as part of Budget Resolution, 2017-02. Any future actions that could be authorized under the emergency action that would increase appropriations or create new obligations would need future Board approval. As a result, there is no net budgetary impact resulting from the Board's approval of Staff's recommendation.



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

**TO:** Board of Directors

**FROM:** Mike Inamine, Executive Director  
Michael Bessette, Director of Engineering

**SUBJECT:** Approval of Task Order 22 with HDR Engineering for engineering services associated with the design and construction of Reach 14 to 16 Cutoff Wall Rehabilitation Project

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## **Recommendation**

Authorize the Executive Director to execute Task Order 22 in the amount of \$1,022,592 with HDR Engineering for engineering services associated with the design and construction of Reach 14 to 16 Cutoff Wall Rehabilitation Project.

## **Background**

The Geotechnical Design Recommendation Report (GDRR) (URS, 2012) for the Feather River West Levee (FRWL) project, disclosed that a cutoff wall was designed and installed under the direction of the United States Army Corp of Engineers (USACE) in Reaches 14 through 16 as part of repairs following the 1997 flood. Based on the available design records, the cutoff wall extends from approximately Station 923+00 in the south to approximately Station 1078+00 in the north, with gaps at 5th Street and 10th Street Bridge crossings. At the time of preparation of the GDRR (URS, 2012), there was insufficient information to assess the integrity of the existing USACE cutoff wall, but proposals were presented to address the gaps at 5th Street and 10th Street. Subsequent to issuance of the GDRR, additional information and subsurface data has become available that indicates that portions of the USACE cutoff wall in Reaches 14 through 16 are not deep enough to meet underseepage criteria during a 200 year + 1 foot water surface elevation design event.

Subsequent to finalizing the Geotechnical Design Recommendation Report for the FRWL project in 2012, additional subsurface data has become available for the existing USACE cutoff wall, including recent design explorations for the new 5th Street Bridge and borings and ground water monitoring data from piezometers installed in Reaches 14 and 16 as part of SBFCA's efforts to further analyze the existing wall. The additional information shows portions of the cutoff wall do not terminate in a fine-grained aquaclude layer and may not provide adequate cutoff to underseepage. Subsequent underseepage analysis provides further evidence that portions of the wall are deficient. In addition, the relatively high river water experienced during the 2017 flood season revealed large areas of distress resulting in seepage, boils, and a sinkhole in areas from Teegarden north to the Gilsizer drainage basin.

In order to complete the design and construction of a new cutoff wall in Reaches 14 thru 16 prior to the next flood season the SBFCA design team will need to complete the design by end of July and have a construction contract underway by early August. The cutoff wall will be approximately three miles in length. The intent is to expedite design and construction to complete all three miles of cutoff wall construction in 2017 if possible.

The work outlined in the HDR scope has been divided into tasks in accordance with the work break down structure (WBS) shown on the attached overall design schedule. The work outlined in this scope includes activities that fall within the following tasks; Project Management, Supplemental Geotechnical Evaluations for Final Design, Design Engineering for Final Design (90% and Final Designs, and Bid Support), Pre-construction activities, Engineering services during construction, Surveying, Construction Documentation Report, SBFCA Program Team Coordination, and Independent Panel of Experts (IPE) and Agency Coordination.

### **Fiscal Impact**

These actions will obligate SBFCA to pay for the associated services delivered on a time and materials basis up to the Task Order 11 Amendment 4 not to exceed budget of \$1,022,592. This work has not been included within the scope and expenditure appropriation limit of the Final Amended 3-Year Budget approved at the May 10, 2017 Board meeting. SBFCA has requested USACE assistance for this effort under the PL 84/99 Program; however, no assistance has been approved as of the date of the drafting of this report. As noted above, due to the critical nature of the work and to ensure that the work is completed by the end of 2017 construction season, design must proceed at this time. SBFCA staff is actively seeking a cost sharing funding commitment for this work from DWR. Possible sources of funding that could fund this design work, as well as implementation, are the UFRR or FSRP programs. UFRR funding could be provided as an amendment to the existing UFRR Grant for the FRWLP1 Project. While staff is actively seeking a funding commitment for this work, as of the drafting of this report, none has been secured at this time.

Approval of the recommended action would have a net budgetary impact of \$1,022,592 (expenditure increase). This impact has the potential to be offset by savings within HDR Task Order 11 (Construction Support for Project Area C) 731-99-5001/6001-67202 and HDR Task Order 12 (Construction Support for Project Areas D&B) 731-99-5001/6001-68202 & 68802 however the magnitude of the savings has not been determined as of the date of drafting of this report.

As a result of the budgetary impact, concurrent with Staff's requested Board approval of Task Order 22, Staff requests that the Board increase the expenditure limit of the approved budget by a corresponding amount. Staff expects that this work would be included with either the EIP/UFRR FRWLP1 Project (731-99-5001/6001) or the Flood Fighting Program (731-94-1066). Specific expenditure accounts for the increased appropriation will be assigned once staff has determined how the effort will be administered.

Attachment: HDR Scope and Budget

**HDR Geotechnical, Surveying, Design and EDC Services  
Reach 14-16 Cutoff Wall  
TOTAL FEE SUMMARY - TASK ORDER 22**

No.	Task Description	HDR	AECOM	WR	MHM	Total Costs
<b>GEOTECHNICAL, SURVEYING, AND ENGINEERING DESIGN SERVICES</b>						
<b>1</b>	<b>Project Management and Coordination</b>					
1.1	Project Management	\$ 70,915	\$ 8,647	\$ 20,426	\$ 9,225	\$ 109,212
1.2	Invoicing and Progress Reports	\$ 33,354	\$ 7,859	\$ -	\$ 11,384	\$ 52,597
	Subtotal Project Management and Coordination	\$ 104,269	\$ 16,506	\$ 20,426	\$ 20,609	\$ 161,809
<b>2</b>	<b>Geotechnical Design</b>					
2.1	Update GDRR Geotechnical Analyses	\$ 17,729	\$ 7,832	\$ -	\$ -	\$ 25,560
2.2	Prepare GDRR Supplemental Report	\$ 4,728	\$ 48,958	\$ -	\$ -	\$ 53,685
	Subtotal Geotechnical Design	\$ 22,456	\$ 56,789	\$ -	\$ -	\$ 79,246
<b>3</b>	<b>Final Design</b>					
3.1	90% PS&E and DDR	\$ 206,110	\$ 2,702	\$ -	\$ 51,762	\$ 260,574
3.2	Final PS&E and DDR	\$ 96,166	\$ 1,621	\$ -	\$ 27,493	\$ 125,281
3.3	Borrow Assessment and Report	\$ 5,935	\$ -	\$ 35,754	\$ -	\$ 41,689
3.4	Bidding support	\$ 45,724	\$ -	\$ -	\$ 4,600	\$ 50,324
	Subtotal Final Design	\$ 353,936	\$ 4,324	\$ 35,754	\$ 83,855	\$ 477,869
<b>4</b>	<b>Pre-Construction</b>					
4.1	Conformed Plans and Specifications	\$ 33,925	\$ -	\$ -	\$ 5,530	\$ 39,455
	Subtotal Pre-Construction	\$ 33,925	\$ -	\$ -	\$ 5,530	\$ 39,455
<b>5</b>	<b>Engineering During Construction</b>					
5.1	Submittal and Request for Information Review	\$ 165,769	\$ 8,684	\$ -	\$ 7,101	\$ 181,554
5.2	Additional Field Instructions and Field Coordination	\$ 57,994	\$ -	\$ -	\$ 10,733	\$ 68,727
5.3	Field Inspections	\$ -	\$ -	\$ -	\$ -	\$ -
5.3.1	Trench Logging	\$ 9,415	\$ 437,614	\$ -	\$ -	\$ 447,029
5.3.2	Design Inspections	\$ 42,469	\$ 24,621	\$ -	\$ 6,133	\$ 73,223
5.4	Review of Contractor Surveys for Verification of Quantities	\$ 13,302	\$ -	\$ -	\$ -	\$ 13,302
5.5	On-Site Meetings and Coordination	\$ 47,276	\$ -	\$ -	\$ 8,119	\$ 55,395
	Subtotal Engineering During Construction	\$ 336,225	\$ 470,919	\$ -	\$ 32,087	\$ 839,231
<b>6</b>	<b>Surveys</b>					
6.1	Field Surveys	\$ 3,926	\$ -	\$ 20,093	\$ -	\$ 24,020
6.2	SBFCA Quality Assurance Surveys	\$ 2,744	\$ -	\$ 55,085	\$ -	\$ 57,830
	Subtotal Surveys	\$ 6,671	\$ -	\$ 75,179	\$ -	\$ 81,849
<b>7</b>	<b>Construction Documentation</b>					
7.1	Construction Documentation Review	\$ 12,580	\$ 16,214	\$ -	\$ 4,374	\$ 33,168
7.2	As-Build Drawings	\$ 42,319	\$ -	\$ -	\$ 7,868	\$ 50,187
	Subtotal Construction Documentation	\$ 54,899	\$ 16,214	\$ -	\$ 12,242	\$ 83,355
<b>8</b>	<b>SBFCA Team Coordination</b>					
8.1	SBFCA Team Coordination	\$ 28,336	\$ -	\$ -	\$ 2,639	\$ 30,975
8.2	ROW Support	\$ 19,632	\$ -	\$ 32,822	\$ 1,760	\$ 54,213
8.3	DWR Geodetic Group Coordination	\$ 4,728	\$ -	\$ 7,978	\$ -	\$ 12,706
	Subtotal SBFCA Team Coordination	\$ 52,695	\$ -	\$ 40,800	\$ 4,399	\$ 97,894
<b>9</b>	<b>IPE and Agency Coordination</b>					
9.1	IPE and Agency Coordination	\$ 24,199	\$ 10,809	\$ 31,191	\$ 7,918	\$ 74,118
	Subtotal IPE and Agency Coordination	\$ 24,199	\$ 10,809	\$ 31,191	\$ 7,918	\$ 74,118
	<b>Subconsultant Markup (2.5%)</b>	<b>\$23,639</b>				<b>\$23,639</b>
	<b>TOTAL EFFORT</b>	<b>\$1,012,915</b>	<b>\$575,561</b>	<b>\$203,350</b>	<b>\$166,639</b>	<b>\$1,958,465</b>
						<b>\$1,022,592</b>

HDR Geotechnical, Surveying, Design and EDC Services

Reach 14-16

TOTAL FEE SUMMARY - TASK ORDER 22

No.	Task Description	Labor											Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total		
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1								
	Rates	273.59	226.05	204.03	180.85	142.59	121.73	103.18	134.48	117.09	107.81	82.31	121.73	103.18				8%		
<b>GEOTECHNICAL, SURVEYING, AND ENGINEERING DESIGN SERVICES - FEATHER RIVER WEST LEVEE REHABILITATION EARLY IMPLEMENTATION PROJECT</b>																				
1	Project Management and Coordination																			
1.1	Project Management	240															240	\$ 65,662	\$ 5,252.93	\$ 70,915
1.2	Invoicing and Progress Reports	80											40	40			160	\$ 30,884	\$ 2,470.69	\$ 33,354
	Subtotal Project Management and Coordination	320	0	0	0	0	0	0	0	0	0	0	40	40			400	\$ 96,545	\$ 7,724	\$ 104,269
2	Geotechnical Design																			
2.1	Update GDRR Geotechnical Analyses	60															60	\$ 16,415	\$ 1,313	\$ 17,729
2.2	Prepare GDRR Supplemental Report	16															16	\$ 4,377	\$ 350	\$ 4,728
	Subtotal Geotechnical Design	76	0	0	0	0	0	0	0	0	0	0	0	0			76	\$ 20,793	\$ 1,663	\$ 22,456
3	Final Design																			
3.1	90% PS&E and DDR	240			320	80			300	80							1,080	\$ 190,843	\$ 15,267	\$ 206,110
3.2	Final PS&E and DDR	100			162	40			180								506	\$ 89,043	\$ 7,123	\$ 96,166
3.3	Borrow Assessment and Report	8			16												28	\$ 5,495	\$ 440	\$ 5,935
3.4	Bidding support	64			80	8			44								228	\$ 42,337	\$ 3,387	\$ 45,724
	Subtotal Final Design	412	0	0	578	128	0	0	524	80	0	0	0	120			1,842	\$ 327,718	\$ 26,217	\$ 353,936
4	Pre-Construction																			
4.1	Conformed Plans and Specifications	40			40				80								184	\$ 31,412	\$ 2,513	\$ 33,925
	Subtotal Pre-Construction	40	0	0	40	0	0	0	80	0	0	0	0	24			184	\$ 31,412	\$ 2,513	\$ 33,925
5	Engineering During Construction																			
5.1	Submittal and Request for Information Review	136			280	240			160								912	\$ 153,490	\$ 12,279	\$ 165,769
5.2	Additional Field Instructions and Field Coordination	120			88												256	\$ 53,698	\$ 4,296	\$ 57,994
5.3	Field Inspections																0	\$ -	\$ -	\$ -
5.3.1	Trench Logging	16			24												40	\$ 8,718	\$ 697	\$ 9,415
5.3.2	Design Inspections	112			48												160	\$ 39,323	\$ 3,146	\$ 42,469
5.4	Review of Contractor Surveys for Verification of Quantities	16			32				16								64	\$ 12,316	\$ 985	\$ 13,302
5.5	On-Site Meetings and Coordination	160															160	\$ 43,774	\$ 3,502	\$ 47,276
	Subtotal Engineering During Construction	560	0	0	472	240	0	0	176	0	0	0	0	144			1,592	\$ 311,320	\$ 24,906	\$ 336,225
6	Surveys																			
6.1	Field Surveys	8			8												16	\$ 3,636	\$ 291	\$ 3,926
6.2	SBFCA Quality Assurance Surveys	4			8												12	\$ 2,541	\$ 203	\$ 2,744
	Subtotal Surveys	12	0	0	16	0	0	0	0	0	0	0	0	0			28	\$ 6,177	\$ 494	\$ 6,671
7	Construction Documentation																			
7.1	Construction Documentation Review	32			16												48	\$ 11,648	\$ 932	\$ 12,580
7.2	As-Build Drawings	48			80				80								216	\$ 39,184	\$ 3,135	\$ 42,319
	Subtotal Construction Documentation	80	0	0	96	0	0	0	80	0	0	0	0	8			264	\$ 50,833	\$ 4,067	\$ 54,899
8	SBFCA Team Coordination																			
8.1	SBFCA Team Coordination	40			80												128	\$ 26,237	\$ 2,099	\$ 28,336
8.2	ROW Support	40			40												80	\$ 18,178	\$ 1,454	\$ 19,632
8.3	DWR Geodetic Group Coordination	16															16	\$ 4,377	\$ 350	\$ 4,728
	Subtotal SBFCA Team Coordination	96	0	0	120	0	0	0	0	0	0	0	0	8			224	\$ 48,792	\$ 3,903	\$ 52,695
9	IPE and Agency Coordination																			
9.1	IPE and Agency Coordination	60			24												100	\$ 22,407	\$ 1,793	\$ 24,199
	Subtotal IPE and Agency Coordination	60	0	0	24	0	0	0	0	0	0	0	0	16			100	\$ 22,407	\$ 1,793	\$ 24,199
<b>TOTAL EFFORT</b>		<b>1,656</b>	<b>0</b>	<b>0</b>	<b>1,346</b>	<b>368</b>	<b>0</b>	<b>0</b>	<b>860</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>360</b>			<b>4,710</b>	<b>\$ 915,996</b>	<b>\$ 73,280</b>	<b>\$ 989,276</b>

**URS Geotechnical, Surveying, Design and EDC Services**  
**Reach 14-16**  
**TOTAL FEE SUMMARY - TASK ORDER 22**

No.	Task Description	Labor											Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total	
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1							
	Rates	257.36	191.31	173.83	139.71	122.13	106.96	100.48	121.59	103.08	86.99	62.63	105.21	80.86				5%	
<b>GEOTECHNICAL, SURVEYING, AND ENGINEERING DESIGN SERVICES - FEATHER RIVER WEST LEVEE REHABILITATION EARLY IMPLEMENTATION PROJECT</b>																			
<b>1</b>	<b>Project Management and Coordination</b>																		
1.1	Project Management	32														32	\$ 8,236	\$ 412	\$ 8,647
1.2	Invoicing and Progress Reports	16												32		48	\$ 7,484	\$ 374	\$ 7,859
	Subtotal Project Management and Coordination	48	0	0	0	0	0	0	0	0	0	0	0	32	0	80	\$ 15,720	\$ 786	\$ 16,506
<b>2</b>	<b>Geotechnical Design</b>																		
2.1	Update GDRR Geotechnical Analyses	10				40										50	\$ 7,459	\$ 373	\$ 7,832
2.2	Prepare GDRR Supplemental Report	34			48	40	40		40							202	\$ 29,484	\$ 19,474	\$ 48,958
	Subtotal Geotechnical Design	44	0	0	48	80	40	0	40	0	0	0	0	0	0	252	\$ 36,942	\$ 19,847	\$ 56,789
<b>3</b>	<b>Final Design</b>																		
3.1	90% PS&E and DDR	10														10	\$ 2,574	\$ 129	\$ 2,702
3.2	Final PS&E and DDR	6														6	\$ 1,544	\$ 77	\$ 1,621
3.3	Borrow Assessment and Report															0	\$ -	\$ -	\$ -
3.4	Bidding support															0	\$ -	\$ -	\$ -
	Subtotal Final Design	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	\$ 4,118	\$ 206	\$ 4,324
<b>4</b>	<b>Pre-Construction</b>																		
4.1	Conformed Plans and Specifications															0	\$ -	\$ -	\$ -
	Subtotal Pre-Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>5</b>	<b>Engineering During Construction</b>																		
5.1	Submittal and Request for Information Review	16				34										50	\$ 8,270	\$ 414	\$ 8,684
5.2	Additional Field Instructions and Field Coordination															0	\$ -	\$ -	\$ -
5.3	Field Inspections															0	\$ -	\$ -	\$ -
5.3.1	Trench Logging				48	3,168										3,216	\$ 393,614	\$ 44,000	\$ 437,614
5.3.2	Design Inspections					192										192	\$ 23,449	\$ 1,172	\$ 24,621
5.4	Review of Contractor Surveys for Verification of Quantities															0	\$ -	\$ -	\$ -
5.5	On-Site Meetings and Coordination															0	\$ -	\$ -	\$ -
	Subtotal Engineering During Construction	16	0	0	48	3,394	0	0	0	0	0	0	0	0	0	3,458	\$ 425,333	\$ 45,586	\$ 470,919
<b>6</b>	<b>Surveys</b>																		
6.1	Field Surveys															0	\$ -	\$ -	\$ -
6.2	SBFCA Quality Assurance Surveys															0	\$ -	\$ -	\$ -
	Subtotal Surveys	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>7</b>	<b>Construction Documentation</b>																		
7.1	Construction Documentation Review	60														60	\$ 15,442	\$ 772	\$ 16,214
7.2	As-Build Drawings															0	\$ -	\$ -	\$ -
	Subtotal Construction Documentation	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	\$ 15,442	\$ 772	\$ 16,214
<b>8</b>	<b>SBFCA Team Coordination</b>																		
8.1	SBFCA Team Coordination															0	\$ -	\$ -	\$ -
8.2	ROW Support															0	\$ -	\$ -	\$ -
8.3	DWR Geodetic Group Coordination															0	\$ -	\$ -	\$ -
	Subtotal SBFCA Team Coordination	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>9</b>	<b>IPE and Agency Coordination</b>																		
9.1	IPE and Agency Coordination	40														40	\$ 10,294	\$ 515	\$ 10,809
	Subtotal IPE and Agency Coordination	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40	\$ 10,294	\$ 515	\$ 10,809
<b>TOTAL EFFORT</b>		<b>148</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>80</b>	<b>40</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>3,846</b>	<b>\$ 507,849</b>	<b>\$ 67,712</b>	<b>\$ 575,561</b>

**Wood Rodgers Geotechnical, Surveying, Design and EDC Services**  
**Reach 4-16 Cutoff Wall**  
**TOTAL FEE SUMMARY - TASK ORDER 22**

No.	Task Description	Labor											Survey	Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total		
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1									
	Rates	243.45	214.47	202.87	191.28	173.89	150.71	139.11	133.31	115.93	92.74	75.81	230.00	110.13	86.94			2.5%			
<b>GEOTECHNICAL, SURVEYING, AND ENGINEERING DESIGN SERVICES - FEATHER RIVER WEST LEVEE REHABILITATION EARLY IMPLEMENTATION PROJECT</b>																					
<b>1</b>	<b>Project Management and Coordination</b>																				
1.1	Project Management	24			30												96	150	\$ 19,927	\$ 498	\$ 20,426
1.2	Invoicing and Progress Reports																	0	\$ -	\$ -	\$ -
	Subtotal Project Management and Coordination	24	0	0	30	0	0	0	0	0	0	0	0	0	0	0	96	150	\$ 19,927	\$ 498	\$ 20,426
<b>2</b>	<b>Geotechnical Design</b>																				
2.1	Update GDRR Geotechnical Analyses																	0	\$ -	\$ -	\$ -
2.2	Prepare GDRR Supplemental Report																	0	\$ -	\$ -	\$ -
	Subtotal Geotechnical Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>3</b>	<b>Final Design</b>																				
3.1	90% PS&E and DDR																	0	\$ -	\$ -	\$ -
3.2	Final PS&E and DDR																	0	\$ -	\$ -	\$ -
3.3	Borrow Assessment and Report	24			50	100											24	198	\$ 34,882	\$ 872	\$ 35,754
3.4	Bidding support																	0	\$ -	\$ -	\$ -
	Subtotal Final Design	24	0	0	50	100	0	0	0	0	0	0	0	0	0	0	24	198	\$ 34,882	\$ 872	\$ 35,754
<b>4</b>	<b>Pre-Construction</b>																				
4.1	Conformed Plan and Specifications																	0	\$ -	\$ -	\$ -
	Subtotal Pre-Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>5</b>	<b>Engineering During Construction</b>																				
5.1	Submittal and Request for Information Review																	0	\$ -	\$ -	\$ -
5.2	Additional Field Instructions and Field Coordination																	0	\$ -	\$ -	\$ -
5.3	Field Inspections																	0	\$ -	\$ -	\$ -
5.3.1	Trench Logging																	0	\$ -	\$ -	\$ -
5.3.2	Design Inspections																	0	\$ -	\$ -	\$ -
5.4	Review of Contractor Surveys for Verification of Quantities																	0	\$ -	\$ -	\$ -
5.5	On-Site Meetings and Coordination																	0	\$ -	\$ -	\$ -
	Subtotal Engineering During Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>6</b>	<b>Surveys</b>																				
6.1	Field Surveys	4			10	30							50					94	\$ 19,603	\$ 490	\$ 20,093
6.2	SBFCA Quality Assurance Surveys	8			30	40							170					248	\$ 53,742	\$ 1,344	\$ 55,085
	Subtotal Surveys	12	0	0	40	70	0	0	0	0	0	0	220	0	0	0	0	342	\$ 73,345	\$ 1,834	\$ 75,179
<b>7</b>	<b>Construction Documentation</b>																				
7.1	Construction Documentation Review																	0	\$ -	\$ -	\$ -
7.2	As-Build Drawings																	0	\$ -	\$ -	\$ -
	Subtotal Construction Documentation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>8</b>	<b>SBFCA Team Coordination</b>																				
8.1	SBFCA Team Coordination																	0	\$ -	\$ -	\$ -
8.2	ROW Support	2			40	64	48						24					178	\$ 32,021	\$ 801	\$ 32,822
8.3	DWR Geodetic Group Coordination	2			8	12							16					38	\$ 7,784	\$ 195	\$ 7,978
	Subtotal SBFCA Team Coordination	4	0	0	48	76	48	0	0	0	0	0	40	0	0	0	0	216	\$ 39,805	\$ 995	\$ 40,800
<b>9</b>	<b>IPE and Agency Coordination</b>																				
9.1	IPE and Agency Coordination	10			60	80											30	180	\$ 30,431	\$ 761	\$ 31,191
	Subtotal IPE and Agency Coordination	10	0	0	60	80	0	0	0	0	0	0	0	0	0	0	30	180	\$ 30,431	\$ 761	\$ 31,191
<b>TOTAL EFFORT</b>		<b>74</b>	<b>0</b>	<b>0</b>	<b>228</b>	<b>326</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>260</b>	<b>0</b>	<b>150</b>	<b>1,086</b>	<b>\$ 198,390</b>	<b>\$ 4,960</b>	<b>\$ 203,350</b>		

**MHM Geotechnical, Surveying, Design and EDC Services**  
**Reach 14-16 Cutoff Wall**  
**TOTAL FEE SUMMARY - TASK ORDER 22**

No.	Task Description	Labor													Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1	Survey							
	Rates	209.47	173.56	155.61	143.63	137.65	119.70	113.71	119.70	107.73	95.76	83.79	239.39	98.63	77.80			5%		
<b>GEOTECHNICAL, SURVEYING, AND ENGINEERING DESIGN SERVICES - FEATHER RIVER WEST LEVEE REHABILITATION EARLY IMPLEMENTATION PROJECT</b>																				
<b>1</b>	<b>Project Management and Coordination</b>																			
1.1	Project Management	36														16				
1.2	Invoicing and Progress Reports	36												24		12				
	Subtotal Project Management and Coordination	72	0	0	0	0	0	0	0	0	0	0	0	24	28					
<b>2</b>	<b>Geotechnical Design</b>																			
2.1	Update GDRR Geotechnical Analyses																0			
2.2	Prepare GDRR Supplemental Report																0			
	Subtotal Geotechnical Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<b>3</b>	<b>Final Design</b>																			
3.1	90% PS&E and DDR	79	88	24		72							16				279			
3.2	Final PS&E and DDR	53	48	8		40											149			
3.3	Borrow Assessment and Report																0			
3.4	Bidding support	8	12	4													24			
	Subtotal Final Design	140	148	36	0	112	0	0	0	0	0	0	16	0	0		452			
<b>4</b>	<b>Pre-Construction</b>																			
4.1	Conformed Plan and Specifications	8		16		8											32			
	Subtotal Pre-Construction	8	0	16	0	8	0	0	0	0	0	0	0	0	0		32			
<b>5</b>	<b>Engineering During Construction</b>																			
5.1	Submittal and Request for Information Review	10		30													40			
5.2	Additional Field Instructions and Field Coordination	28		28													56			
5.3	Field Inspections																0			
5.3.1	Trench Logging																0			
5.3.2	Design Inspections	16		16													32			
5.4	Review of Contractor Surveys for Verification of Quantities																0			
5.5	On-Site Meetings and Coordination	28		12													40			
	Subtotal Engineering During Construction	82	0	86	0	0	0	0	0	0	0	0	0	0	0		168			
<b>6</b>	<b>Surveys</b>																			
6.1	Field Surveys																0			
6.2	SBFCA Quality Assurance Surveys																0			
	Subtotal Surveys	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			
<b>7</b>	<b>Construction Documentation</b>																			
7.1	Construction Documentation Review	8		16													24			
7.2	As-Build Drawings	12		32													44			
	Subtotal Construction Documentation	20	0	48	0	0	0	0	0	0	0	0	0	0	0		68			
<b>8</b>	<b>SBFCA Team Coordination</b>																			
8.1	SBFCA Team Coordination	12															12			
8.2	ROW Support	8															8			
8.3	DWR Geodetic Group Coordination																0			
	Subtotal SBFCA Team Coordination	20	0	0	0	0	0	0	0	0	0	0	0	0	0		20			
<b>9</b>	<b>IPE and Agency Coordination</b>																			
9.1	IPE and Agency Coordination	36															36			
	Subtotal IPE and Agency Coordination	36	0	0	0	0	0	0	0	0	0	0	0	0	0		36			
<b>TOTAL EFFORT</b>		<b>378</b>	<b>148</b>	<b>186</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>24</b>	<b>28</b>		<b>900</b>	<b>158,704</b>	<b>7,935</b>	<b>166,639</b>

**SCOPE AND FEE ESTIMATE FOR  
ENGINEERING DESIGN SERVICES  
TASK ORDER 22**

**Feather River West Levee  
*Reach 14 to 16 Cutoff Wall – Final Design***

**Sutter Butte Flood Control Agency  
Yuba City, California**



June 1, 2017



2365 Iron Point Road, Suite 300  
Folsom, CA 95630



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## Introduction

The Feather River West Levee (FRWL) project encompasses roughly 44 miles of levee from the Sutter Bypass to Thermalito Afterbay through Sutter and Butte Counties. The HDR design team (HDR) has been issued Task Orders by the Sutter Butte Flood Control Agency (SBFCA) for execution of the project work as follows:

- ◆ Task Order 1: Perform geotechnical and civil analyses, generate a Pre-Design Formulation Report (PFR) for the west bank of the FRWL as well as 30% designs (July 14, 2010).
- ◆ Task Order 2: Complete additional geotechnical explorations for design.
- ◆ Task Order 3: Prepare survey base mapping to support SBFCA's Right of Way team.
- ◆ Task Order 4: Prepare 65 percent construction documents for the FRWL Project between Station 461+00 and 2368+00.
- ◆ Task Order 5: Prepare 65 percent construction documents for the FRWL Project between Station 202+00 and 461+00.
- ◆ Task Order 6: Perform additional borrow assessments, right of way support and design activities.
- ◆ Task Order 7: Prepare Phase 1 Environmental Site Assessments for the non-urban portion of Project Area C.
- ◆ Task Order 8: Prepare groundwater assessments in support of the project EIR/EIS.
- ◆ Task Order 9: Complete additional Phase 1 Environmental Site Assessments and Surveys as part of on-going Right of Way support.
- ◆ Task Order 10: Prepare final design for 2013 and 2014 construction packages.
  - Amendment 1 was issued for additional explorations and analyses in Reach 13, providing Surface Mine and Reclamation Act (SMARA) permitting activities, and construction representation and support.
  - Amendment 2 was issued for the completion of additional geotechnical investigations and analyses in Reaches 22, 23, 24, 31, and 34.
  - Amendment 3 was issued to supplement borrow investigations and the Borrow Assessment Report for Project Area C
  - Amendment 4 was issued to inventory and test groundwater wells.



- Amendment 5 was issued for supplemental geotechnical investigations and reporting relating to end around effects.
  - Amendment 6 was issued for additional utility designs and right of way support.
  - Amendment 7 was issued for additional borrow investigations, testing and reporting.
  - Amendment 8 was issued for cobble material delineation in Project Area C.
- ◆ Task Order 11 was issued for design services during construction of Project Area C.
  - ◆ Task Order 12 was issued for design services during construction of Project Area B and D.

Based on the various scope items in the above noted Task Orders, the HDR team prepared construction documents for Project Areas B, C and D of the FRWL. These project elements have now been successfully bid and are under construction.

### **Project Background**

SBFCA will complete designs for a cutoff wall in Reaches 14 to 16, replacing the existing cutoff wall that USACE constructed approximately I 1998. The cutoff wall will be approximately 3 miles in length. The intent is to expedite design and construction to complete cutoff wall construction in 2017 if possible.

## **Scope of Work (HDR)**

The work outlined in this scope has been divided into tasks in accordance with the work break down structure (WBS) shown on the attached overall design schedule and consistent with our previously approved contract. The additional work outlined in this scope includes activities that fall within the following tasks:

- ◆ Project Management
- ◆ Supplemental Geotechnical Evaluations for Final Design
- ◆ Design Engineering for Final Design (90% and Final Designs, and Bid Support)
- ◆ Pre-construction activities
- ◆ Engineering services during construction
- ◆ Surveying
- ◆ Construction Documentation Report
- ◆ SBFCA Program Team Coordination
- ◆ Independent Panel of Experts (IPE) and Agency Coordination

## 1. Project Management

### 1.1. Project Management

HDR's project manager will manage the design contract scope, schedule and budget for all HDR Team project activities outlined for Task Order 22. Project management will also occur at the task level for each team member as shown on the attached breakdown of hours. In addition, the project manager will coordinate with the Client, the subconsultant teams, agencies and stakeholders throughout the duration of the project. This subtask includes project management activities from June 1, 2017 to December 1, 2017.

HDR will continue to attend weekly meetings with SBFCA's Director of Engineering to provide an update of the design status and discuss program issues, and Task Order 22 activities will be added to the agenda.

HDR will continue to act as Quality Assurance Manager for the Reach 14 to 16 site. HDR will request documentation of Quality Control plans and reviews, and track the status of reviews of key deliverables of team members.

#### **Deliverables:**

- ◆ Monthly QA tracking summaries (Included in Progress Report)

#### **Assumptions:**

- ◆ Contract duration is from June 1, 2017 to December 1, 2017.
- ◆ Weekly 2 hour design management meetings are required.

### 1.2. Invoicing and Progress Reports

HDR will prepare separate monthly progress reports that document project activities and update the project schedule and budget status. Items that the progress report will include are:

- ◆ Financial status summary including an earned value analysis by task.
- ◆ Project schedule and deliverables
- ◆ Current activities list
- ◆ Issues list (design, schedule and QA/QC issues)
- ◆ QA/QC review status

#### **Deliverables:**

- ◆ Monthly progress reports.

## 2. Supplemental Geotechnical Evaluations

### 2.1. Updated GDRR Analyses for 90% Design

AECOM will perform additional field explorations consisting of 7 Cone Penetration Test soundings to depths of between 60 and 70 feet and 2 hollow stem auger borings to depths of 70 feet. The additional explorations are required to bridge areas where existing explorations are approximately 1,000 feet apart. It is assumed that CPT soundings will take a total of 3-days and HAS work will take 1 day.

AECOM will also perform two days of test pitting work to investigate the sinkhole that developed at the landside levee toe following heavy rains in February 2017. The purpose of the tests pits is to try to identify the cause of the sinkhole. It is assumed that a backhoe will be provided by the City of Yuba City for the test pitting work

Data from the additional explorations will be reviewed along with the existing seepage and stability analysis results from the 65% design to identify areas that require additional analyses. It is assumed that additional analysis and evaluation will be required for two cross-sections.

Following completion of analysis and review a Technical Memorandum will be prepared presenting the analysis results and recommended cutoff wall depths and extents.

#### Assumptions:

- ◆ All work under Task 2.1 will be completed in 2017.
- ◆ Field work is anticipated to about 1 week to complete after mobilization to the field
- ◆ For test pitting work a backhoe will be provided by the City of Yuba City

#### Deliverables:

- ◆ Technical Memorandum presenting updated analysis results and recommendations for cutoff wall construction

### 2.2. Prepare Supplemental GDRR

The HDR Team will prepare a Draft Supplemental Geotechnical Design Recommendations Report (GDRR) for Reach 14 to 16 in support of 90% Design. The purpose and focus of the supplemental GDRR is to present the confirmatory and/or updated analyses, evaluations, conclusions, and recommendations to support the design of selected remediation measures.

#### Deliverables:

- ◆ Draft Supplemental Geotechnical Design Recommendations Report for Reach 14 to 16.

- ◆ Responses to SBFCA, ITR Board, and Agency comments including the backcheck process as described in the Quality Assurance Plan.
- ◆ Final Supplemental Geotechnical Design Recommendations Report for Reach 14 to 16, in support of Final Design.

### 3. Design Engineering - Final Design

HDR will prepare finished construction drawings, specifications, and estimates of probable construction cost for the Reach 14 to 16 site suitable for bidding and construction. Under this Task Order, the HDR Team will advance the design to a construction bid-ready package. The 90% PS&E will be reviewed by SBFCA, the IPE, and other agencies (including USACE, the CVFPB and DWR). The final PS&E will be distributed for backchecking and closing of comments. The preparation of PS&E will include plans, details, cross sections, general and technical specifications, quantity calculations, and final estimates of probable construction costs.

#### 3.1. Prepare 90-percent Design

Design will be completed to the 90% level. The 90% submittal will include a full set of drawings, specifications (general conditions through technical specifications), a bid schedule, and an updated cost estimate. 90% PS&E will be submitted following internal QC reviews.

##### 3.1.1 Prepare 90% Plans

The HDR team will complete 90% designs and associated drawings. Drawings will be prepared using AutoCAD software. These plans will include general layouts, updated topographic survey and mapping data, a levee profile, cross-sections, typical sections of repair methods, details and survey control.

##### Deliverables:

- ◆ 90% Plans and Specifications. (Half-size drawings only).

##### Comments/Assumptions:

- ◆ The Reach 14 to 16 site will be bid as a stand-alone contract

##### 3.1.3 Utility Designs for 90% Design

The HDR Team will complete 90% designs and associated drawings for these pipe encroachments. MHM will work with SBFCA on potential consolidation of interior drainage facilities, and/or the need to downsize or upsize based on SBFCA's interior drainage analysis. The HDR Team will consider typical details when utility crossings are similar but since many of the locations are unique most sites will include a site specific plan and profile.

##### Deliverables:

- ◆ 90% Utility Plans. (Half-size drawings only). (Drawing files, pdf files, and 1 CD)

**Comments/Assumptions:**

- ◆ SBFCA will provide interior drainage capacity information.
- ◆ Utility relocations will be shown for pipelines at the 90% design stage. A list of utility relocations anticipated to be included in the 90% design are listed below:
  - Yuba City Boat Dock and RV Park Domestic Water Pipe Crossing – 3.5 Inch (Station 9272+29) – This pipeline is assumed to have been replaced by SBFCA as part of the GAP project so the work will to be remove above working platform and reinstallation.
  - Irrigation Pipe Crossing – 3 Inch (Station 988+05) – This pipeline was assumed to be remove and dispose.
  - Yuba City Storm Drainage Discharge Pipe Crossing – 16 Inch (Station 1043+03) – This pipeline will be a complete remove and replace.
  - Gilsizer County Drainage District Storm Drainage Discharge Pipe Crossing – 24 Inch (Station 1043+22) – This pipeline will be a complete remove and replace.
  - Gilsizer County Drainage District Storm Drainage Discharge Pipe Crossing – 24 Inch (Station 1043+27) – This pipeline will be a complete remove and replace.
  - Gilsizer County Drainage District Storm Drainage Discharge Pipe Crossing – 36 Inch (Station 1043+45) – This pipeline will be a complete remove and replace.
  - Yuba City Sewer Gravity Pipe Crossing – 27 Inch (Station 1043+52) – This pipeline will be a complete remove and dispose.
  - Pacific Gas and Electric - Gas Pipe Crossing – 16 Inch (Station 1073+41) – This pipeline will be a complete remove and replace. (Design and Construction by PG&E)
  - Pacific Gas and Electric – Gas Pipe Crossing – 8 Inch (Station 1079+91) – This pipeline was replaced by PG&E as part of SBFCA work in 2014. The work will to be remove above working platform and reinstallation. (Design and Construction by PG&E)

**3.1.4 90% Specifications**

Technical specifications will include specifications for all design features. General specifications (front-end documents) and Special Provisions will also be prepared.



**Deliverables:**

- ◆ 90% General Conditions, Special Provisions and Technical Specifications.

**Comments/Assumptions:**

- ◆ The Reach 14 to 16 site will be bid as a stand-alone contract
- ◆ The specifications prepared for the FRWL Project 1 will be used as the basis for this project, and only minor modifications will be required.

**3.1.5 90% Cost Estimate**

HDR will prepare a detailed cost estimate. Quantity take-off calculations and cost estimates will be prepared in a Microsoft Excel spreadsheet for the 90% submittal. A draft bid schedule with updated quantities will be included. Cost estimates at the 90% level of design will include a contingency of 15 to 25%.

**Deliverables:**

- ◆ 90% Cost Estimate.

**Comments/Assumptions:**

- ◆ All required environmental mitigation and real estate acquisition costs will be provided by other SBFCA consultants.

**3.1.5 90% Design Documentation Report**

HDR will prepare written documentation of engineering design. Documentation will consist of a binder containing a design decision log, analyses, design calculations, quantity take-offs and geometric calculations, utility information, quality control reviews and meeting notes. The Engineer's report will focus on materials prepared following completion of 65% design.

**Deliverables:**

- ◆ 90% Design Documentation Report.

**3.2. Final PS&E**

**3.2.1. Final Plans and Specifications**

HDR will complete final designs and associated drawings and specifications. Final plans will generally incorporate any final comments received during backcheck of the 90% plans and specifications.

**Deliverables:**

- ◆ Final Plans and Specifications. (Half-size drawings only).

**Comments/Assumptions:**

- ◆ None.

### 3.2.2. Final Cost Estimate

HDR will prepare a final cost estimate. Quantity take-off calculations and cost estimates will be prepared in a Microsoft Excel spreadsheet for the final design submittal. A final bid schedule with final quantities will be included. Cost estimates at the Final Design level of design will include a contingency of 10%.

**Deliverables:**

- ◆ Final Design Cost Estimate.

**Comments/Assumptions:**

- ◆ All required environmental mitigation and real estate acquisition costs will be provided by other SBFCA consultants.
- ◆ Any opinions of probable project costs or probable construction cost provided by HDR are made on the basis of information available to HDR and on the basis of HDR's experience and qualifications, and represents its judgment as an experienced and qualified engineer. However, since HDR has no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor methods of determining prices, or over competitive bidding or marked conditions, HDR does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable costs HDR prepares.

### 3.2.3. Final Design Documentation Report

HDR will prepare written documentation of engineering design. Documentation will consist of a binder containing design calculations, quantity take-offs and geometric calculations, utility information, quality control reviews and meeting notes. The Engineer's report will focus on materials prepared following completion of 90% design.

**Deliverables:**

- ◆ Final Design Documentation Report.

## 3.3. Borrow Site Assessment and Report

The HDR team will perform a borrow site assessment and prepare a report for the project. The borrow quantity will be based upon the 90% submittal quantities and refined levee fill requirements, and incorporate geotechnical information gathered. The borrow site assessment will identify the locations of the borrow sites, the likely yield from each site, the improvements necessary to return the sites to their current use or their proposed use after borrow activities are completed, and permitting requirements. The assessment will finalize borrow needs and sites for construction.

**Deliverables:**

- ◆ Borrow Site Assessment Report (2 copies, 10 CD's).

- ◆ Preliminary plan view and cross section drawings (at approximately 90% detail) for each site will be provided to illustrate the pre-project and post-project conditions.

**Comments/Assumptions:**

- ◆ Up to four potential borrow sites will be included in the assessment.
- ◆ Environmental and Real Estate assessments will be provided by other SBFCA team members.
- ◆ The borrow site assessment will be based on the borrow quantities (amount of fill needed) determined in the 60% design.
- ◆ Obtaining permits for borrow sites is not included in this scope.

### 3.4. Bidding Support

After the Final PS&E are submitted, HDR will assist SBFCA during the pre-construction phase of the project. HDR bidding and construction services for 2017 construction will consist of the following:

#### 3.4.1. Bidding Support (Addenda and Clarifications)

HDR will assist SBFCA with the bidding process for each phase of the project, including responding to technical questions submitted by potential bidders and providing clarifying addenda when appropriate.

**Deliverables:**

- ◆ One addendum to bid documents for each bid package.

**Comments/Assumptions:**

- ◆ One addendum will be required for each bid package.

#### 3.4.2. Pre-Bid Meetings

HDR will attend a pre-bid meeting as requested by SBFCA. In addition, one meeting is assumed for coordination with SBFCA.

**Deliverables:**

- ◆ Meeting notes.

**Comments/Assumptions:**

- ◆ One pre-bid meeting and one coordination meeting are assumed.

## 4. Pre-Construction

### 4.1. Conformed Plans and Specifications

The HDR team will prepare conformed plans and specifications for the construction management team and SBFCA. The conformed plans will incorporate all the addenda generated during the bid phase.

**Deliverables:**

- ◆ One full size and one half size copy of the conformed plans
- ◆ One copy of the conformed specifications
- ◆ One PDF copy of the conformed plans and specifications

## 5. Engineering During Construction

### 5.1. Submittal and Request for Information Review

The HDR team will work with the SBFCA team including the Contractor and the Construction Manager (CM) to provide engineering services during the construction phase of Project Area C of the FRWL. Our work will include the following:

- ◆ Review and respond to contractor submittals (assumed 2 hours of review per submittal). The HDR team will assign a point of contact for the CM team to provide submittals to. The point of contact will compile all review comments received and provide one consolidated response to the CM team.
- ◆ Review and respond to contractor submitted requests for information (assumed 2 hours per RFI for a total of 40 RFIs). The HDR team point of contact will forward the RFIs to appropriate for review, compile all appropriate responses, and provide one consolidated responses to the CM team.
- ◆ Coordination with the Contractor and the CM team.

**Assumptions:**

- ◆ The construction season is from August 1 to November 30.

### 5.2. Additional Field Instructions and Field Coordination

The HDR team will address questions generated by the Construction Management team, and will review relevant field instructions to the Contractor. The amount of coordination required for this task, due to its uncertainty, will be based on a weekly man-hours effort for design team leads.

**Assumptions:**

- ◆ 2 hours per week will be required for the duration of construction

### 5.3. Field Inspection

#### 5.3.1. ~~Geotechnical Trench Logging~~

~~AECOM will provide the following engineering services (monitoring and logging) during construction of the cutoff walls:~~

- ~~◆ AECOM will develop a cutoff wall trench logging, documentation, and communication plan for the project. This plan will be the basis for HDR's logging and documentation during construction of the cutoff wall.~~
- ~~◆ For each work shift and heading of the cutoff wall, the AECOM will provide an engineer or geologist to document the materials encountered during the excavation for the slurry walls. The engineer or geologist at each heading will evaluate whether the materials encountered at the target design depths are consistent with the design assumptions and whether the wall can be terminated at the design depths. If needed, the heading representative with the concurrence of construction manager will instruct deepening of the cutoff wall, using the agreed communication protocols, to a depth of up to 10 feet, per the specifications. If the desired key in materials are not encountered within the estimated design depth plus the additional 10 feet, the engineer will immediately inform the design and construction management teams.~~
- ~~◆ The engineer will prepare cutoff wall trench logs during the cutoff wall excavations. Trench logs and a summary of activities, review the logs will be submit to the construction management team on a weekly basis.~~

#### ~~Assumptions:~~

- ~~◆ Cutoff wall construction will be 2 shifts, 24 hours per day, and 6 days a week.~~
- ~~◆ Two cutoff wall headings are assumed.~~
- ~~◆ Assumed duration of Cutoff wall construction is 12 weeks.~~
- ~~◆ The QA testing activities during the cutoff wall construction will be performed by others.~~

#### 5.3.2. ~~Design Inspections~~

~~The HDR team will conduct design inspections on an as needed basis to review construction activities. This work will be performed by the staff when already on site (e.g., for CM and Contractor meetings) when possible. Occasional inspections by others from the design team will also occur. Activities observed will include earthwork, cutoff wall construction (does not include trench logging, which is included in Task 5.3.1), and utility work.~~

#### ~~Assumptions:~~

- ~~◆ Assumed 4 hours per week for design/utility/geotechnical leads~~

### ~~5.4. Review of Contractor Surveys for Verification of Quantities~~

~~The HDR team will review contractor surveys to confirm in place quantities submitted by the Contractor. QA surveys completed by SBFCA will be the basis for the comparison.~~

**Deliverables:**

- ~~◆ Memoranda summarizing calculated quantities and any deviations from bid quantities.~~

**Assumptions:**

- ~~◆ The CM team will provide both Contractor survey data in AutoCAD format for comparison.~~
- ~~◆ Design leads (HDR, MHM) will review quantities for their portions of the work.~~

### 5.5. Meetings

#### ~~5.5.1. On-site Construction Coordination Meetings~~

~~The HDR team will attend weekly meetings with the Contractor and CM. The meetings will take place in Yuba City at the CM office, and the meetings will occur on the same day and no more than 2 hours apart.~~

**Assumptions:**

- ~~◆ Assumed 1.4 hour meeting, including driving time, per week~~

## 6. Surveys

### 6.1. Field Surveys

The HDR Team will perform field surveys of the FRWL to collect major planimetric features and the diameter at breast height (DBH) of existing trees within the levee footprint (and within 15 feet of the levee toes). The HDR Team will establish a control network using GPS/RTK survey methods to support this work. Field surveys will be performed using GPS/RTK and conventional survey methods.

**Comments/Assumptions:**

- ◆ It is understood that SBFCA will obtain right-of-way agreements, as necessary, to support this field survey work.
- ◆ Approximately 5 days of field work are anticipated for the field survey work.

## 6.2. SBFCA Quality Assurance Surveys

The HDR Team will perform construction Quality Assurance surveying at the request of SBFCA’s Construction Manager. The surveys will be used to check the Contractor’s surveying work with respect to stripping, levee degrading, aggregate surfacing removal, utility relocation, levee reconstruction, or other surveys as may be required to check the Contractor’s work. Control Points for the purpose of performing Quality Assurance surveys will also be provided by the HDR Team along the Project alignment. Control surveys for Quality Assurance surveys will be performed using a 3-man crew. The scope of work assumes three (3) 2-man survey crew days for each month that construction work is anticipated to occur. This assumption is for the purpose of preparing a budget only, and should surveying be required on weekends, the HDR Team will work to accommodate the Contractor’s schedule. Similarly, there may be times when more than one survey crew is necessary to meet the needs of the Construction schedule, and the HDR Team will provide sufficient surveying teams to meet the schedule. Typically, when continuous surveying during construction is not required, two working days of advance notice by the Construction Manager will be required to schedule Quality Assurance surveys.

### Assumptions:

- ◆ Assumes one (1) 2-man survey crew day 3 days per month during the construction season
- ◆ Survey crew-days are anticipated to be 8-hours, including drive time

## ~~7. Construction Documentation~~

### ~~7.1. Construction Documentation Report Review~~

~~The HDR team will review draft copies of the Project Completion Report for the Project work and provide comments to the CM for inclusion into the report. The HDR team will prepare an appendix summarizing the construction design support services provided including the following items:~~

- ~~◆ Submittals Reviewed~~
- ~~◆ Responses to RFIs~~
- ~~◆ Design Changes Issued~~
- ~~◆ Slurry wall trench logs~~
- ~~◆ Record Drawings and Specifications (separate appendix)~~

### ~~Deliverable:~~

- ~~a) Review comments on draft Project Completion Reports~~

- ◆ ~~Appendix to Project Completion Report—Summary of Construction Design Support Services provided by HDR~~
- ◆ ~~Record Drawings and Specifications (From Task 7.2 below)~~

**Assumptions:**

- ◆ ~~Based on construction administration records and field observations, the Construction Manager will provide a statement that the project was built within the intent of construction documents and are substantially completed.~~

## 7.2. Record Drawings

~~Based on change orders and field revisions to the construction drawings, the HDR team will compile record drawings of the constructed levee repairs. Upon completion of the construction contract, HDR will compile a set of Record Documents conforming to the marked up prints, drawings, specifications and other data furnished to HDR by the Contractor. This set of Record Documents will show the reported location of the work and significant changes made during the construction process. Because these Record Documents are based on unverified information provided by other parties that will be assumed reliable, HDR cannot and does not warrant their accuracy. It is assumed that no changes will be made to title sheets, standard details, demolition/staging, traffic control plans, and the horizontal control plan.~~

**Deliverables:**

- ◆ ~~Record Drawings and Specifications.~~

**Assumptions:**

- ◆ ~~As built drawing information including changes will be provided by SBFCA, the CM and/or the Contractors.~~
- ◆ ~~As built drawing and specification information including changes will be provided by SBFCA, the CM and/or the Contractors.~~

## 8. SBFCA Program Team Coordination

### 8.1. Coordination with Environmental, ROW, Public Outreach teams

The HDR Team will coordinate with other members of the SBFCA team (including the environmental, public outreach and real estate teams) as needed and as directed by SBFCA to discuss design issues, meet program needs and to help facilitate project approvals. The HDR design team will attend monthly coordination meetings with the environmental team and SBFCA's Director of Engineering. HDR will provide design support and help facilitate coordination between design elements of the Reach 14 to 16 site and the EIR/EIS, key regulatory and environmental permits and related activities. The HDR design team will also attend weekly coordination meetings with the right of way team and SBFCA's Director of Engineering



**Assumptions:**

- ◆ Attendance at monthly environmental coordination meetings will be required from June 1 to December 1, 2017.
- ◆ Attendance at Right of Way coordination calls from June 1 to November 1, 2017.

## 8.2. Additional ROW Support

The HDR team will provide additional ROW support during the fee take of the parcels required for this project. An APN list of the 3 parcels needed for the Reach 14 to 16 Cutoff Wall project (STA 827+00 to 1080+00) is included herein. It is anticipated that the project will require property from the following parcels:

- ◆ Blanchard (52-471-007)
- ◆ Law (52-471-015)
- ◆ Dhami (52-471-021)

In addition to the fee take parcels, the HDR team will also provide ROW support to acquire levee easements on agency parcels (3 parcels) and right of entry coordination (26 parcels) for all other parcels within the construction limits.

**Assumptions:**

- ◆ It is assumed that a 20-foot fee acquisition offset along the landside levee toe is not required on parcels with existing structures (30 parcels) along the landside levee toe (i.e. Second Street residential homes)
- ◆ The Scope of Work assumes that the approach for acquiring land from these parcels will be similar to that employed by SBFCA on FRWL Project 1. At each of the parcels noted above, HDR will provide Right-of-Way support including base mapping services, development of appraisal exhibits and area calculations, show me staking, and preparation of plat and legal descriptions for lands obtained from each parcel.

## 8.3. Coordination with DWR Geodetic Group

Also included in this Task is close out and transfer of ROW properties in conformance with discussions with the DWR Geodetic Branch. The general process for this coordination (including monumentation of properties acquired) is described in Wood Rodgers letter proposal to SBFCA dated April 2, 2014.

As has occurred during FRWL Project 1, ROW acquisition services at times requires “on-call” type tasks which may not be accounted for in the proposed budget. HDR will work to accommodate such requests, billing them against the fee budget estimate. Depending on the nature and extent of the requested work, adjustments to the fee estimate for this task item may eventually be required.

## 9. IPE and Agency Coordination

### 9.1. IPE Meetings and Coordination

The HDR Team will coordinate and meet with SBFCA's Independent Panel of Experts (IPE) to discuss technical issues on the project and design elements. The HDR team will coordinate and document ITR Board reviews of key design deliverables.

**Comments/Assumptions:**

- ◆ Quarterly 2-day IPE Board meetings will be required.
- ◆ The HDR team will prepare presentations to the IPE at each meeting related to this FSRP project.

### 9.2. Coordination and Meetings with USACE, DWR, CVFPB

The HDR Team will coordinate with agencies and local organizations (USACE, DWR, CVFPB, Sutter County, Yuba City, canal operators, Levee Districts, Maintenance Areas, etc.) as needed and as directed by SBFCA to discuss design issues, meet program needs and to help facilitate project approvals.

**Comments/Assumptions:**

- ◆ Up to 8 meetings have been assumed for Agency coordination.

### 9.3. Coordination and Meetings with Utility Owners

The HDR team will coordinate with utility owners, including PG&E, AT&T, Comcast, City of Yuba City, and others who own and operate utilities crossing the FRWL. Wood Rodgers will coordinate and prepare exhibits, designs, and other information necessary to facilitate the outage, removal, replacement, and reconstruction of utilities crossing the FRWL, where required.

**Comments/Assumptions:**

- ◆ Up to 10 meetings have been assumed for utility coordination.

## Fee Estimate (HDR)

Attached please find HDR's fee estimate for the scope of work described herein for Task Order 22. The rates used in the individual fee tables correspond to the 2017 rates. Note that this is for a budgetary estimate only and that actual rates will be used. See the attached fee estimate for details.



## **Schedule**

The schedule of Task Order 22 assumes the following general schedule milestones when preparing this scope of work and fee estimate:

- Notice to Proceed – June 5, 2017
- 90% Design – July 7, 2017
- Final Design – August 11, 2017

**HDR Engineering Inc.**

**Task Order 22**

**Feather River West Levee Project 2**

This Task Order is associated with the Master Agreement between the Sutter Butte Flood Control Agency and HDR Engineering Inc., dated July 14, 2010.

**Scope of Work**

See attached scope dated June 5, 2017. (Subtasks 5 and 7 are not included in this initial authorization for Task Order 22.)

**Schedule**

June 5, 2017 to December 1, 2017.

**Budget**

The budget for this amendment is not-to-exceed \$1,022,592 based on the provisions of the Master Agreement. An assumed breakdown of work effort is provided in the attached Fee Summary table dated June 5, 2017. (This initial authorization for Task Order 22 does not include subtasks 5 and 7.)

**Special Provisions**

None

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

SUTTER BUTTE FLOOD CONTROL AGENCY

HDR ENGINEERING INC.

By: \_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DATED: \_\_\_\_\_

DATED: \_\_\_\_\_



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

**TO:** Board of Directors

**FROM:** Mike Inamine, Executive Director  
Seth Wurzel, Budget Manager

**SUBJECT:** Receive and File Monthly Financial Reports (April 2017)

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## **Recommendation**

Staff recommends that the Board receive and file the April 2017 Financial Report and receive staff's monthly financial report update.

## **Background**

Staff will provide a brief presentation of SBFCA's current financial position and financial activities at the Board meeting and will be prepared to answer any questions.

The monthly financial reports include the following information:

- Current Working Capital Position: The reports provide an update as to the liquidity of the Agency and ability to cover current obligations. This information is presented within the monthly financial report prepared in coordination with Yuba City finance staff. The current month's financial report reflects the financial information as of April 2017. The information presented is compared to the Final Amended Final Budget for FY 2016/17.

## **Fiscal Impact**

This is an informational item only with no fiscal impact to the Agency.

## **Attachments**

Yuba City Finance Department Memorandum, June 14, 2017 re: Monthly Financial Report: April 2017



Yuba City  
Finance Department  
*Memorandum*

**Date:** June 14, 2017

**To:** Board Members, Sutter Butte Flood Control Agency  
Mike Inamine, Executive Director

**From:** Robin Bertagna, CPA *MB*  
Agency Treasurer / Yuba City Finance Director

**Subject:** Monthly Financial Report: April 2017

Attached is the Monthly Financial Report for the Sutter Butte Flood Control Agency for the month of April covering fiscal year 2016-2017. This Monthly Financial Report includes the following information prepared by SBFCA:

- Total working capital reconciliation: A reconciliation of total working capital for fiscal year 2016-2017 through April 2017 as compared to the amended SBFCA Budget is shown. The statements show the cumulative expenditures incurred through April 30<sup>th</sup> for 2016-2017 as compared to their final amended budgeted expenditures, respectively. The statement also shows an estimated amount of invoiced expenditures and revenues received to date for fiscal year 2016-2017. The total preliminary working capital for the Agency as of April 30<sup>th</sup>, 2017 is estimated to be \$16,126,018 (**Exhibit A**).

As of the date of this report, the estimated difference between invoiced expenditures and paid expenditures is approximately \$2,659,894.

For fiscal year 2016-17 through April 30<sup>th</sup>, the total amount of revenue received through grants and assessment collection included in the working capital from the State of California totals \$37,711,322. This represents combined Proposition 1E revenue for the EIP, LC FSRP, Regional Planning, and Emergency Response projects and Proposition 13 revenue for the Feasibility Study.

SBFCA has drawn the balance of its 2013 Assessment Revenue Bond proceeds. The balance of the Project Fund as of March 31<sup>st</sup>, 2017 is \$0. The balance of the 2015 Assessment Revenue Bond proceeds remaining with the Trustee is \$4,307.21 as of April 30<sup>th</sup>, 2017.

Taking into consideration payable expenses, assessment revenues received, State funding received, financing draws, and the repayment of debt, the Total Preliminary Working Capital for the Agency is approximately \$12,947,439.

- Summary statement of cumulative activities for fiscal year 2016-17 through April 2017: This statement shows the expenditures by fund and by the major expenditure category – Operations & Capital (USACE Study, EIP, Stakeholder Management, Regional Planning, Emergency Response Planning, etc.). This statement also shows the amounts received and expended through April 2017, as compared to the Final Amended SBFCA Budget for fiscal year 2016-17. This statement has been reconciled by SBFCA staff to the City of Yuba City's financial system (**Exhibit B**).

Check registers reflecting all checks issued on behalf of the Agency for April 2017 for fiscal year 2016-17 are also included.

This correspondence is informational only. Please review and file.

Thank you.

## SBFCA BUDGET TOTAL WORKING CAPITAL RECONCILIATION

	FY 2016/17		
<u>Line Item Description</u>	<u>Amended 2016-17 Budget [1]</u>	<u>Month Ending April-17</u>	<u>Rec'd/Invoiced to Date</u>
<b>Working Capital Beginning of Period</b>			
Operational Fund 730	3,282,035	3,282,035	3,282,035
Capital Fund 731 - USACE Study	(508,062)	(508,062)	(508,062)
Capital Fund 731 - EIP	10,783,615	10,783,615	10,783,615
Capital Fund 731 - Stakeholder	5,430	5,430	5,430
Capital Fund 731 - RFMP	(318,677)	(318,677)	(318,677)
Capital Fund 731 - OWA	(562,954)	(562,954)	(562,954)
Capital Fund 731 - ER Planning	(8,646)	(8,646)	(8,646)
Capital Fund 731 - Gridley Bridge	(227,282)	(227,282)	(227,282)
Capital Fund 731 - FSRP	(1,003,848)	(1,003,848)	(1,003,848)
Capital Fund 731- ULOP	-	-	-
Capital Fund 731 - Flood & Emergency	-	-	-
<b>Total Beginning of Period</b>	<b>11,441,611</b>	<b>11,441,611</b>	<b>11,441,611</b>
<b>Transfers</b>			
Operational Fund 730	-	-	-
Capital Fund 731			
<i>Capital Fund 731 - USACE Study</i>	-	-	-
<i>Capital Fund 731 - EIP</i>	-	-	-
<i>Capital Fund 731 - Stakeholder</i>	-	-	-
<i>Capital Fund 731 - RFMP</i>	-	-	-
<i>Capital Fund 731 - OWA</i>	-	-	-
<i>Capital Fund 731- FSRP</i>	-	-	-
<i>Capital Fund 731- ULOP</i>	-	-	-
<i>Capital Fund 731 - Flood &amp; Emergency</i>	-	-	-
Subtotal Capital Fund	-	-	-
<b>Net Transfers</b>	-	-	-
<b>Revenues</b>			
Operational Fund 730	750,000	750,000	750,000
Capital Fund 731			
<i>Capital Fund 731 - USACE Study</i>	-	-	-
<i>Capital Fund 731 - EIP (Local)</i>	5,750,000	3,332,546	3,332,546
<i>Capital Fund 731 - EIP (State)</i>	42,464,489	28,982,810	29,014,920
<i>Capital Fund 731 - Stakeholder</i>	-	-	-
<i>Capital Fund 731 - RFMP</i>	281,759	-	-
<i>Capital Fund 731 - OWA</i>	1,214,089	402,444	755,757
<i>Capital Fund 731 - ER Planning</i>	(61,252)	(61,252)	(61,252)
<i>Capital Fund 731 - Gridley Bridge</i>	158,169	116,399	158,169
<i>Capital Fund 731- FSRP</i>	4,188,375	4,188,375	4,188,375
<i>Capital Fund 731- ULOP</i>	-	-	-
<i>Capital Fund 731 - Flood &amp; Emergency</i>	-	-	-
Subtotal Capital Fund	53,995,630	36,961,322	37,388,515
<b>Total Revenues Operating &amp; Capital</b>	<b>54,745,630</b>	<b>37,711,322</b>	<b>38,138,515</b>

## SBFCA BUDGET TOTAL WORKING CAPITAL RECONCILIATION

<u>Line Item Description</u>	FY 2016/17		
	<u>Amended 2016-17 Budget [1]</u>	<u>Month Ending April-17</u>	<u>Rec'd/Invoiced to Date</u>
<b>Expenses</b>			
Operational Fund 730	601,750	318,909	327,773
Capital Fund 731			
<i>Capital Fund 731 - USACE Study</i>	13,556	13,556	13,556
<i>Capital Fund 731 - EIP</i>	42,844,336	28,291,530	30,396,075
<i>Capital Fund 731 - Stakeholder</i>	25,000	1,680	-
<i>Capital Fund 731 - RFMP</i>	194,445	123,305	139,628
<i>Capital Fund 731 - OWA</i>	653,535	322,551	569,236
<i>Capital Fund 731 - ER Planning</i>	94	94	94
<i>Capital Fund 731 - Gridley Bridge</i>	3,987	3,987	3,987
<i>Capital Fund 731- FSRP</i>	3,676,863	635,308	699,485
<i>Capital Fund 731- ULOP</i>	66,000	6,133	13,689
<i>Capital Fund 731 - Flood &amp; Emergency</i>	5,500,000	155,684	369,109
Subtotal Capital Fund	52,977,815	29,553,828	32,204,858
<b>Total Expenses Operating &amp; Capital</b>	<b>53,579,565</b>	<b>29,872,737</b>	<b>32,532,631</b>
<b>Financing Activities [2]</b>			
Gross Proceeds from New Debt <i>[Trustee]</i>	-	(6,408,226)	(6,408,226)
Proceeds from of New Debt <i>[SBFCA]</i>	-	6,408,226	6,408,226
Short/Long Term Debt Repayment	-	-	-
Costs of Financing	-	-	-
Debt Service on Outstanding Debt	(3,154,178)	(3,154,178)	(4,100,056)
<b>Net Financing Activities</b>	<b>(3,154,178)</b>	<b>(3,154,178)</b>	<b>(4,100,056)</b>
<b>Working Capital End of Period</b>			
Operational Fund 730	3,430,285	3,713,126	3,704,262
Capital Fund 731 - USACE Study	(521,618)	(521,618)	(521,618)
Capital Fund 731 - EIP	12,999,590	11,653,262	8,634,949
Capital Fund 731 - Stakeholder	(19,570)	3,750	5,430
Capital Fund 731 - RFMP	(231,363)	(441,983)	(458,305)
Capital Fund 731 - OWA	(2,399)	(483,061)	(376,433)
Capital Fund 731 - ER Planning	(69,991)	(69,991)	(69,991)
Capital Fund 731 - Gridley Bridge	(73,099)	(114,869)	(73,099)
Capital Fund 731 - FSRP	(492,337)	2,549,219	2,485,042
Capital Fund 731- ULOP	(66,000)	(6,133)	(13,689)
Capital Fund 731 - Flood & Emergency	(5,500,000)	(155,684)	(369,109)
<b>Total End of Period</b>	<b>9,453,497</b>	<b>16,126,018</b>	<b>12,947,439</b>
<b>Working Capital Net of Trustee Funds</b>		<b>\$14,165,295</b>	<b>\$10,986,717</b>

[1] Reflects Approved Budget presented to the Board at it's May 10, 2017 meeting.

[2] Financing Activities are reflected in the Capital Fund EIP Ending Working Capital Balance



SUNGARD PENTAMATION, INC.  
 DATE: 05/11/2017  
 TIME: 10:53:46

CITY OF YUBA CITY  
 CHECK REGISTER - BY FUND

PAGE NUMBER: 1  
 ACCTPA21

SELECTION CRITERIA: transact.yr='17' and transact.period='10' and transact.fund between '730' and '731'  
 ACCOUNTING PERIOD: 11/17

FUND - 730 - FLOOD CONTROL AGENCY

CASH ACCT	CHECK NO	ISSUE DT	VENDOR	FUND/DEPT	ACCNT	DESCRIPTION	SALES TAX	AMOUNT
10100	219338	04/06/17	300739	ADVANCED DOCUMENT C 7350	62601	SBFCA/FEB QJC103534	0.00	8.23
10100	219422	04/06/17	201595	UNITED PARCEL SERVI 7350	62301	SBFCA/SHIPPING	0.00	10.67
10100	219479	04/13/17	304090	KIM FLOYD COMMUNICA 7350	62701	SBFCA/FEB-MAR SERV	0.00	184.12
10100	219479	04/13/17	304090	KIM FLOYD COMMUNICA 7350	65647	SBFCA/FEB-MAR SERV	0.00	1,468.75
TOTAL CHECK							0.00	1,652.87
10100	219492	04/13/17	304991	MICHAEL BESSETTE 7350	62801	SBFCA/MARCH REIMB	0.00	42.82
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF 7350	62798	SBFCA/JAN AREAS B&D	0.00	3,069.00
10100	219518	04/13/17	201761	SPRINT 7350	62201	SBFCA/MAR 2-28/3-27	0.00	16.55
10100	219529	04/13/17	307507	TERRA YANEY 7350	62801	SBFCA/MARCH REIMB	0.00	207.45
10100	219656	04/20/17	306094	REEB GOVERNMENT REL 7350	62701	SBFCA/APRIL 2017 SE	0.00	1,375.00
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62501	TY/OFFICE SUPPLIES	0.00	1.29
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62801	TY/AIRLINE-CAP-TO-C	0.00	47.57
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62301	TY/POSTAGE	0.00	0.64
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62801	TY/AIRLINE TICKETS	0.00	61.56
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62501	TY/OFFICE SUPPLIES	0.00	1.70
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62301	TY/POSTAGE	0.00	0.12
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62801	TY/CAP-TO-CAP REG	0.00	174.12
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM 7350	62301	TY/POSTAGE	0.00	0.07
TOTAL CHECK							0.00	287.07
10100	219721	04/27/17	300880	AT&T 7350	62201	SBFCA/4-8 TO 5-7-17	0.00	8.59
10100	219728	04/27/17	307445	CALIFORNIA CHOICE 7350	62799	SBFCA/YANEY BENEFIT	0.00	824.86
TOTAL CASH ACCOUNT							0.00	7,503.11
TOTAL FUND							0.00	7,503.11

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 ACCTPA21

SELECTION CRITERIA: transact.yr='17' and transact.period='10' and transact.fund between '730' and '731'  
 ACCOUNTING PERIOD: 11/17

FUND - 731 - SBFCA CAPITAL FUND

CASH ACCT	CHECK NO	ISSUE DT	VENDOR	FUND/DEPT	ACCNT	DESCRIPTION	SALES TAX	AMOUNT
10100	219338	04/06/17	300739	ADVANCED DOCUMENT C	992004	65689 SBFCA/FEB QJC103534	0.00	16.46
10100	219338	04/06/17	300739	ADVANCED DOCUMENT C	996001	67310 SBFCA/FEB QJC103534	0.00	33.56
10100	219338	04/06/17	300739	ADVANCED DOCUMENT C	995001	67310 SBFCA/FEB QJC103534	0.00	106.30
TOTAL CHECK								156.32
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	995001	66716 SBFCA/DEC 2016 SERV	0.00	1,048.37
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	996001	66714 SBFCA/DEC 2016 SERV	0.00	869.61
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	995001	66717 SBFCA/DEC 2016 SERV	0.00	5,458.15
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	995001	67114 SBFCA/DEC 2016 AREA	0.00	151.75
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	996001	66717 SBFCA/DEC 2016 SERV	0.00	1,516.42
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	996001	67114 SBFCA/DEC 2016 AREA	0.00	47.92
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	996001	66716 SBFCA/DEC 2016 SERV	0.00	331.07
10100	219350	04/06/17	302416	BENDER ROSENTHAL, I	995001	66714 SBFCA/DEC 2016 SERV	0.00	2,753.74
TOTAL CHECK								12,177.03
10100	219406	04/06/17	305301	RIVER VALLEY COMMUN	996001	67310 SBFCA/DEC-FEB FEES	0.00	18.00
10100	219406	04/06/17	305301	RIVER VALLEY COMMUN	995001	67310 SBFCA/DEC-FEB FEES	0.00	57.00
TOTAL CHECK								75.00
10100	219421	04/06/17	87240	UNION PACIFIC RAILR	995001	66741 SBFCA/RELIEF WELLS	0.00	1,845.59
10100	219421	04/06/17	87240	UNION PACIFIC RAILR	996001	66741 SBFCA/RELIEF WELLS	0.00	582.82
TOTAL CHECK								2,428.41
10100	219455	04/13/17	304127	DONALD H. BABBITT	996001	66804 SBFCA/SEPT-NOV PANE	0.00	44.17
10100	219455	04/13/17	304127	DONALD H. BABBITT	995001	66704 SBFCA/SEPT-NOV PANE	0.00	556.98
10100	219455	04/13/17	304127	DONALD H. BABBITT	995001	66804 SBFCA/SEPT-NOV PANE	0.00	139.86
10100	219455	04/13/17	304127	DONALD H. BABBITT	995001	66604 SBFCA/SEPT-NOV PANE	0.00	32.76
10100	219455	04/13/17	304127	DONALD H. BABBITT	996001	66704 SBFCA/SEPT-NOV PANE	0.00	175.89
10100	219455	04/13/17	304127	DONALD H. BABBITT	996001	66604 SBFCA/SEPT-NOV PANE	0.00	10.34
TOTAL CHECK								960.00
10100	219457	04/13/17	306396	ECORP CONSULTING, I	995001	67310 SBFCA/FEB 2017 SERV	0.00	2,074.80
10100	219457	04/13/17	306396	ECORP CONSULTING, I	996001	67310 SBFCA/FEB 2017 SERV	0.00	655.20
TOTAL CHECK								2,730.00
10100	219479	04/13/17	304090	KIM FLOYD COMMUNICA	995001	66331 SBFCA/FEB-MAR SERV	0.00	2,658.65
10100	219479	04/13/17	304090	KIM FLOYD COMMUNICA	996001	66331 SBFCA/FEB-MAR SERV	0.00	839.57
TOTAL CHECK								3,498.22
10100	219480	04/13/17	304090	KIM FLOYD COMMUNICA	991066	65614 SBFCA/MARCH SERV	0.00	8,701.29
10100	219489	04/13/17	201493	MBK ENGINEERS	992001	65641 SBFCA/NOV 2016 SERV	0.00	3,655.50
10100	219489	04/13/17	201493	MBK ENGINEERS	992001	65642 SBFCA/NOV 2016 SERV	0.00	5,159.00
10100	219489	04/13/17	201493	MBK ENGINEERS	992001	65646 SBFCA/NOV 2016 SERV	0.00	591.50
TOTAL CHECK								9,406.00
10100	219492	04/13/17	304991	MICHAEL BESSETTE	996001	67310 SBFCA/MARCH REIMB	0.00	128.62
10100	219492	04/13/17	304991	MICHAEL BESSETTE	995001	67310 SBFCA/MARCH REIMB	0.00	407.30
10100	219492	04/13/17	304991	MICHAEL BESSETTE	992004	65689 SBFCA/MARCH REIMB	0.00	63.05
TOTAL CHECK								598.97
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	996001	68200 SBFCA/FEB AREAS B&D	0.00	156.48

SUNGARD PENTAMATION, INC.  
 DATE: 05/11/2017  
 TIME: 10:53:46

CITY OF YUBA CITY  
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PAGE NUMBER: 3  
 ACCTPA21

SELECTION CRITERIA: transact.yr='17' and transact.period='10' and transact.fund between '730' and '731'  
 ACCOUNTING PERIOD: 11/17

FUND - 731 - SBFCA CAPITAL FUND

CASH ACCT	CHECK NO	ISSUE DT	VENDOR	FUND/DEPT	ACCNT	DESCRIPTION	SALES TAX	AMOUNT	
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	996001	68800	SBFCA/FEB AREAS B&D	0.00	804.98
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	996001	68931	SBFCA/JAN-GRIDLEY	0.00	54,175.21
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	996001	68800	SBFCA/JAN AREAS B&D	0.00	4,949.18
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	996001	68931	SBFCA/FEB-GRIDLEY	0.00	18,551.52
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	995001	68931	SBFCA/JAN-GRIDLEY	0.00	171,554.83
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	995001	68200	SBFCA/FEB AREAS B&D	0.00	495.52
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	995001	68931	SBFCA/FEB-GRIDLEY	0.00	58,746.45
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	995001	68800	SBFCA/JAN AREAS B&D	0.00	17,814.07
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	995001	68800	SBFCA/FEB AREAS B&D	0.00	2,897.40
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	992004	65687	SBFCA/JAN-GRIDLEY	0.00	480.00
10100	219508	04/13/17	301312	PARSONS BRINCKERHOF	992004	65687	SBFCA/FEB-GRIDLEY	0.00	2,440.26
TOTAL CHECK							0.00	333,065.90	
10100	219509	04/13/17	301312	PARSONS BRINCKERHOF	991066	65614	SBFCA/FEB 2017 SERV	0.00	141,947.93
10100	219510	04/13/17	301931	PETERSON, BRUSTAD,	992005	65667	SBFCA/FEB OROVILLE	0.00	4,160.10
10100	219518	04/13/17	201761	SPRINT	996001	67310	SBFCA/MAR 2-28/3-27	0.00	67.52
10100	219518	04/13/17	201761	SPRINT	995001	67310	SBFCA/MAR 2-28/3-27	0.00	213.83
10100	219518	04/13/17	201761	SPRINT	992004	65689	SBFCA/MAR 2-28/3-27	0.00	33.10
TOTAL CHECK							0.00	314.45	
10100	219579	04/20/17	306923	CAPRI & CLAY, INC.	996001	66552	SBFCA/MAR 408 APPRO	0.00	8,000.00
10100	219606	04/20/17	200071	HDR ENGINEERING INC	992004	65683	SBFCA/OCT -LAUREL A	0.00	5,850.44
10100	219606	04/20/17	200071	HDR ENGINEERING INC	992004	65683	SBFCA/SEPT LAUREL A	0.00	2,206.17
10100	219606	04/20/17	200071	HDR ENGINEERING INC	992004	65683	SBFCA/NOV LAUREL AV	0.00	2,915.96
TOTAL CHECK							0.00	10,972.57	
10100	219609	04/20/17	302687	ICF JONES & STOKES,	992004	65684	SBFCA/FEB LAUREL AV	0.00	2,976.94
10100	219609	04/20/17	302687	ICF JONES & STOKES,	992004	65684	SBFCA/JAN LAUREL AV	0.00	504.63
TOTAL CHECK							0.00	3,481.57	
10100	219615	04/20/17	304090	KIM FLOYD COMMUNICA	992001	65642	SBFCA/FEB-MAR SERV	0.00	3,298.91
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/AIRLINE-CAP-TO-C	0.00	614.60
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/AIRLINE TICKETS	0.00	795.22
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/CAP-TO-CAP REG	0.00	2,249.46
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/OFFICE SUPPLIES	0.00	16.60
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/POSTAGE	0.00	0.90
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/POSTAGE	0.00	8.23
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	992004	65689	TY/POSTAGE	0.00	0.14
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	996001	67310	TY/POSTAGE	0.00	0.29
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	996001	67310	TY/POSTAGE	0.00	0.46
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	996001	67310	TY/CAP-TO-CAP REG	0.00	710.36
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/POSTAGE	0.00	1.44
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	992004	65689	TY/CAP-TO-CAP REG	0.00	348.21
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	996001	67310	TY/POSTAGE	0.00	2.60
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	992004	65689	TY/POSTAGE	0.00	0.22
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	996001	67310	TY/OFFICE SUPPLIES	0.00	5.24
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	995001	67310	TY/OFFICE SUPPLIES	0.00	21.85
10100	219686	04/20/17	302252	U.S. BANK CORP PAYM	996001	67310	TY/OFFICE SUPPLIES	0.00	6.90

SUNGARD PENTAMATION, INC.  
 DATE: 05/11/2017  
 TIME: 10:53:46

CITY OF YUBA CITY  
 CHECK REGISTER - BY FUND

PAGE NUMBER: 4  
 ACCTPA21

SELECTION CRITERIA: transact.yr='17' and transact.period='10' and transact.fund between '730' and '731'  
 ACCOUNTING PERIOD: 11/17

FUND - 731 - SBFCA CAPITAL FUND

CASH ACCT	CHECK NO	ISSUE DT	VENDOR	FUND/DEPT	ACCNT	DESCRIPTION	SALES TAX	AMOUNT
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	996001	67310	TY/AIRLINE-CAP-TO-C	0.00	194.09
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	996001	67310	TY/AIRLINE TICKETS	0.00	251.12
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	992004	65689	TY/POSTAGE	0.00	1.27
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	992004	65689	TY/OFFICE SUPPLIES	0.00	2.57
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	992004	65689	TY/AIRLINE TICKETS	0.00	123.10
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	992004	65689	TY/AIRLINE-CAP-TO-C	0.00	95.14
10100	219686	04/20/17	302252 U.S. BANK CORP PAYM	992004	65689	TY/OFFICE SUPPLIES	0.00	3.38
TOTAL CHECK							0.00	5,453.39
10100	219721	04/27/17	300880 AT&T	992004	65689	SBFCA/4-8 TO 5-7-17	0.00	17.19
10100	219721	04/27/17	300880 AT&T	995001	67310	SBFCA/4-8 TO 5-7-17	0.00	111.03
10100	219721	04/27/17	300880 AT&T	996001	67310	SBFCA/4-8 TO 5-7-17	0.00	35.06
TOTAL CHECK							0.00	163.28
10100	219727	04/27/17	98959 CA DEPT OF FISH & W	992005	65666	SBFCA/CONSISTENCY D	0.00	6,000.00
10100	219761	04/27/17	200071 HDR ENGINEERING INC	995001	68202	SBFCA/DEC AREA BD	0.00	37,145.88
10100	219761	04/27/17	200071 HDR ENGINEERING INC	995001	68802	SBFCA/DEC AREA BD	0.00	62,407.18
10100	219761	04/27/17	200071 HDR ENGINEERING INC	992001	65641	SBFCA/DEC FEMA AG	0.00	12,380.39
10100	219761	04/27/17	200071 HDR ENGINEERING INC	996001	68802	SBFCA/DEC AREA BD	0.00	17,338.14
10100	219761	04/27/17	200071 HDR ENGINEERING INC	996001	68202	SBFCA/DEC AREA BD	0.00	11,730.28
10100	219761	04/27/17	200071 HDR ENGINEERING INC	992004	65683	SBFCA/DEC LAUREL AV	0.00	1,397.99
TOTAL CHECK							0.00	142,399.86
10100	219775	04/27/17	305409 LARSEN WURZEL & ASS	992001	65641	SBFCA/MARCH SERVICE	0.00	431.25
10100	219776	04/27/17	305409 LARSEN WURZEL & ASS	991066	65614	SBFCA/MARCH SERVICE	0.00	712.50
10100	219777	04/27/17	305409 LARSEN WURZEL & ASS	991066	65615	SBFCA/MARCH SERVICE	0.00	285.00
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	992004	68944	SBFCA/MARCH WCB GRA	0.00	6,815.48
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	996001	66341	SBFCA/MARCH SERVICE	0.00	3,185.55
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	992004	68943	SBFCA/MARCH WCB GRA	0.00	6,491.63
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	992004	68942	SBFCA/MARCH WCB GRA	0.00	96.60
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	995001	66531	SBFCA/MARCH SERVICE	0.00	2,250.36
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	995001	66513	SBFCA/MARCH SERVICE	0.00	1,209.21
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	992004	65682	SBFCA/MARCH SERVICE	0.00	391.05
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	995001	66341	SBFCA/MARCH SERVICE	0.00	10,087.58
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	996001	66513	SBFCA/MARCH SERVICE	0.00	365.44
10100	219797	04/27/17	301931 PETERSON, BRUSTAD,	996001	66531	SBFCA/MARCH SERVICE	0.00	710.64
TOTAL CHECK							0.00	31,603.54
10100	219809	04/27/17	305301 RIVER VALLEY COMMUN	996001	67310	SBFCA/MARCH FEE	0.00	6.00
10100	219809	04/27/17	305301 RIVER VALLEY COMMUN	995001	67310	SBFCA/MARCH FEE	0.00	19.00
TOTAL CHECK							0.00	25.00
TOTAL CASH ACCOUNT							0.00	733,046.49
TOTAL FUND							0.00	733,046.49
TOTAL REPORT							0.00	740,549.60



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

## **Item 7**

**TO:** Board of Directors  
**FROM:** Mike Inamine, Executive Director  
Michael Bessette, Director of Engineering  
**SUBJECT:** Program/Project Update

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This time has been set aside on the agenda for other reports from Agency staff and consultants.

## **Item 8**

**TO:** Board of Directors  
**FROM:** Mike Inamine, Executive Director  
**SUBJECT:** Other reports from Agency staff and consultants

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This time has been set aside on the agenda for a report from the CADAC.

## **Item 9**

**TO:** Board of Directors  
**FROM:** Mike Inamine, Executive Director  
**SUBJECT:** Report by the Citizens' Assessment District Advisory Committee

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This time has been set aside on the agenda for a report and discussion (if necessary) by member and partner agency representatives.

## **Item 10**

**TO:** Board of Directors  
**FROM:** Mike Inamine, Executive Director  
**SUBJECT:** Report by Member and Partner Agencies

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This time has been set aside on the agenda for Board discussion and staff response regarding correspondence received by the Agency.

## **Item 11**

**TO:** Board of Directors  
**FROM:** Mike Inamine, Executive Director  
**SUBJECT:** Report on Correspondence Sent by and Received by the Board

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This time has been set aside on the agenda for Board discussion and staff response regarding correspondence received by the Agency.

## **Fiscal Impact**

The above items are informational only with no fiscal impact to the Agency.

**Items: 7-11**



# Sutter Butte Flood Control Agency

*A Partnership for Flood Safety*

June 14, 2017

**TO:** Board of Directors

**FROM:** Mike Inamine - Executive Director  
Michael Bessette - Director of Engineering

**SUBJECT:** Receive and File Program/Project Update Report

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## **Recommendation**

Receive and file the June 2017 Program/Project update report.

## **Background**

The purpose of this report is to provide a regular, monthly update on SBFCA program and project activities:

### *Engineering Design*

The design team recently completed work on the record drawings for the 5<sup>th</sup> Street Bridge Gap closure project and Project Area D. The design team is also participating in the construction of the Completion Projects (UPRR Relief Wells, UPRR Closure Structure, Yuba City Raw Water Intake Berm, and Reach 7 Relief Wells). Additional analysis work is being conducted on the Sutter County shed demolition project due to the presence of cultural material encountered last month. In order to minimize further excavation into the existing levee for the removal of an existing retaining wall, a revised design is being coordinated with the regulatory agencies and Independent Panel of Experts (IPE). The design team also continues the analysis of the existing slurry wall installed by the USACE in Reaches 14-16 to better understand the deficiencies and possible remediation alternatives. This information was presented to the IPE and recently to both USACE and DWR in the hope that one or both of those agencies will fund the project. A PL 84-99 rehabilitation request was completed and submitted to USACE in early May and we anticipate receiving USACE's decision in June. This design work to rehabilitate the existing wall will be further augmented by the proposed Task Order 22 being presented to the board this month. This wall must be completed this construction season due to public safety risk.

The design team continues to support right-of-way acquisition efforts, provide appraisal exhibits, plats and legal descriptions, real estate plan geodetics information, and coordinating with landowners on utility crossings and relocations.

### *Construction Management (Project Areas B, C & D, and Completion Projects)*

The work on the Completion Projects is progressing very efficiently in multiple project locations simultaneously. The construction of the Completion Projects will be ongoing through July. Currently, work includes construction of the relief well drainage system at the UPRR crossing on Live Oak Boulevard, and development of both the Reach 7 and UPRR relief wells now that those wells have been installed.

Over the past month, the CM and engineering design teams have held weekly construction coordination meetings with the contractor to coordinate and manage the ongoing Completion Projects. The CM team continued construction management and administrative duties related to schedule evaluation, pay estimates, requests for pricing, and reviewed and negotiated costs submitted for changed work. The CM team just completed the Project Area B and D Construction Documentation Reports with support from the design team. The CM team is also holding weekly coordination meetings with affected tribes.

### *Environmental Documentation/Permitting*

Biological and cultural monitoring continues in all active project areas. Monitoring will continue in active sites for the Completion Projects and at Laurel Avenue now that that project started last month. Permitting for the Oroville Wildlife Area Project is ongoing. Staff and the consultant team continue to coordinate with DWR and CDFW to finalize the mitigation for GGS impacts. Staff continues to implement settlement agreement implementation with UAIC, including recently completed emergency work, the work within the Completion Projects, and upcoming new work at Reaches 14-16. Staff continues to coordinate with the Sutter Buttes Regional Land Trust (SBRLT) regarding the Starr Bend setback area mitigation site and associated conservation easement, and will continue to coordinate with SBRLT until the easement is in place. The high water events in February have caused damage to both Starr Bend and Mathews Mitigation sites. The evaluation of the damage and preparation of repair alternatives are ongoing. SBFCA staff is including the restoration of both sites in requests to CalOES/FEMA as part of the funding authorized under the President’s declaration DR-4308. Staff will be meeting with FEMA representatives on June 8.

*Right of Way*

Right-of-way acquisition for the Completion Projects work is ongoing with only two parcels outstanding. The right-of-way acquisition process for the Laurel Avenue project is complete. The right-of-way team is working closely with DWR to complete the real estate plans for Project Areas B and D. The plan for Project Area C was completed in November, which now allows SBFCA to be reimbursed by the state for acquisition costs in that project area (see funding coordination below). Areas B and D real estate plans are now scheduled for approval in June due to delays at DWR caused by the Oroville Dam incident and emergency operations demands.

*State & Local Funding and Coordination*

As previously reported, the last funding agreement amendment with DWR was approved by the California Department of General Services on December 28, 2016. With the approval of this amendment, funding for work completed in the northern reaches of Project Area D is being provided. SBFCA expects that there will be at least one additional amendment to the construction agreement in the future that will transfer the remaining funding, \$2.53 million, from SBFCA’s Design Funding Agreement once that agreement is fully closed out. Staff is coordinating with DWR on this amendment as well as other options for increasing the funding provided under the UFRR Agreement for work in Reaches 16-14.

SBFCA is working with DWR to process several payment and reimbursement requests for various items of work completed through March 31, 2017. These payment requests and their status are summarized in the following table.

<b>Payment Item</b>	<b>Amount</b>	<b>Status</b>
Pmt #12 –Area D Reimbursement per CFA #4	\$11,742,433	DWR FPO Review being finalized
Pmt #13 – Partial Retention Release for Area C Work	\$4,448,650	Pending DWR FPO Review
Area C ROW Payments (various)	\$144,540	FAP Approved, waiting for payments
Design Funding Agreement Retention Release	\$1,594,666	Coordinating final agreement closeout items with DWR
Advance for work through 3/31/17	\$2,316,518	Pending DWR FPO Review
<b>Total Recent / Pending Payments</b>	<b>\$20,246,807</b>	

DWR worked diligently in February to process \$10.8 million of payments in order to ensure SBFCA has sufficient cash to deal with the costs of recent storm related issues. However, significant payments totaling more than \$20 million are still due to SBFCA. This funding remains critical as SBFCA continues to advance planned project work.

The following updated table summarizes SBFCA’s EIP/UFRR grant funding committed, in process and received to date.

**FRWLP DWR EIP/UFRR Funding**

**Agreement**

	<b><u>Design</u></b>		<b><u>Construction</u></b>		<b><u>Total</u></b>
Agreement No.	#4600009480		#4600010296		
Capital Outlay Amount	\$9,000,000		\$56,780,000		\$65,780,000
Amendment 1	\$0	[1]	\$0	[2]	\$0
Amendment 2	\$14,869,280	[3]	\$57,803,791	[4]	\$72,673,071
Amendment 3			\$43,861,587		\$43,861,587
Amendment 4			\$40,828,931		\$40,828,931
Amendment X	-\$2,529,451	[5]	\$2,529,451	[5]	\$0
<b>TOTAL FUNDING</b>	<b>\$21,339,829</b>		<b>\$201,803,760</b>		<b>\$223,143,589</b>
Receipts					
PMT 1	\$2,328,141		\$14,103,457		\$16,431,597
PMT 2	\$1,160,580		\$18,447,722		\$19,608,302
PMT 3	\$4,842,366		\$19,469,632		\$24,311,998
PMT 4	\$8,704,665		\$15,358,844		\$24,063,509
PMT 5	\$2,709,411		\$13,846,991		\$16,556,402
PMT 6	\$0		\$14,479,664		\$14,479,664
PMT 7	\$0		\$13,168,126		\$13,168,126
PMT 8	\$0		\$26,429,866		\$26,429,866
PMT 9	\$0		\$181,266		\$181,266
PMT 10	\$0		\$2,928,803		\$2,928,803
PMT 11	\$0		\$7,898,917		\$7,898,917
RET. & FINAL PMT	\$1,594,667	[6]	\$0		\$1,594,667
Balance of Pending	\$0		\$18,652,141	[6]	\$18,652,141
<b>TOTAL PAYMENTS</b>	<b>\$21,339,829</b>		<b>\$164,965,428</b>		<b>\$186,305,258</b>
<b>GRANT BALANCE</b>	<b>\$0</b>		<b>\$36,838,331</b>		<b>\$36,838,331</b>

[1] Amendment 1 to the Design Agreement amended the term of the agreement.

[2] Amendment 1 to the Construction Agreement amended the scope agreement to include the closure of gaps (at reaches 13 and 24) in Area C.

[3] Amendment 2 to the Design Agreement increased the cost share from 50% to 76% State Cost Share and increased the State funding limit.

[4] Amendment 2 to the Construction Agreement increased the scope to include Areas B & D2A and increased the State funding limit. It also incorporated many of the guideline provisions of the UFRR Program.

[5] Reflects pending transfer of remaining design funding to the CFA.

[6] Pending Payments per DWR.

*Note: All payments reflected after PMT No. 11 have not yet been received.*

*Laurel Avenue Repair Project (DWR Flood System Repair Program Grant)*

Construction submittals are continuously being provided by the Contractor and are currently being reviewed by the design team and appropriate review Agencies. The contractor started his mobilization and BMP efforts in early May. Levee degrade is anticipated to start in early June and cutoff wall construction anticipated to start around the middle of June. Construction coordination meetings between the Agency, construction manager,

engineers, DWR, USACE, and the contractor are being held on a weekly basis now that construction has initiated.

*Flood Damage at Unimproved Levees (Lower Feather River west levee and Sutter Bypass east levee) and USACE Slurry Wall (Reaches 14-16)*

SBFCA and LD 1 have submitted PL 84-99 rehabilitation requests to the USACE the first week in May for several levee reaches (Reaches 14-16 USACE slurry wall rehabilitation, erosion near 5<sup>th</sup> Street Bridge, erosion at Boyd's Landing, erosion near Barry Road, and erosion at Abbott Lake). We expect to hear which projects will be rehabilitated under the PL 84-99 program in June. Two areas of flood damage present the highest risk: Reaches 14 through 16, and in particular, the reach between Gilsizer slough and Teegarden Way exhibit apparent deficiencies of the USACE slurry wall; and second, the erosion waterside of this reach of levee upstream of the 5<sup>th</sup> Street Bridge. Fortunately, DWR recently completed the erosion repair north of the 5<sup>th</sup> Street Bridge in May. SBFCA also supported a PL 84-99 request from DWR to repair reaches of the Sutter Bypass east levee. SBFCA staff has submitted a request for funding from FEMA under the FEMA Public Assistance Program administered by CalOES in coordination with Sutter County OES. SBFCA would be a sub-grantee to CalOES. The submission of the request for funding is the start of the process. The next step will be for SBFCA to meet with CalOES to finalize the list of projects for FEMA's approval.

*Oroville Wildlife Area (OWA) Flood Stage Reduction Project*

The project team continues to work on the design, environmental documentation, and permitting efforts. Review of the 100% deliverable is complete and the final bid documents were delivered on May 26. Design efforts for the restoration improvements have kicked off and the surveying and geotechnical work is in progress; however, delays have been encountered since February due to the high water and the Oroville dam spillway incident. A Biological Opinion has been received from USFWS, SHPO Section 106 concurrence was received on May 15<sup>th</sup>, and a draft lease from the State Lands Commission was received on May 26<sup>th</sup>. The draft lease is currently being reviewed by SBFCA staff and is scheduled to go before the State Lands Commission at their next regularly scheduled meeting on June 22<sup>nd</sup>. Work continues on obtaining the USACE Section 404, Section 408, and FERC approvals. Development of the National Marine Fisheries Service Biological Opinion, Streambed Alteration Agreement, 401 RWQCB certification, and the Incidental Take Permit are also in progress. In regards to funding, SBFCA continues to coordinate with CDFW on developing the Prop 1 grant agreement, which will fund the construction of some of the restoration-related work. In addition, SBFCA staff continues to coordinate with both American Rivers and River Partners to implement the recent grants, which they received from the Wildlife Conservation Board and CDFW. The team also continues to research additional opportunities to fund the construction of the remaining restoration related work.

*Central Valley Flood Protection Plan*

SBFCA staff as a member of the Feather River Region Plan is coordinating reviews and comments with the Mid and Upper Sac Region Planning group.

**Fiscal Impact**

This is an informational item only with no fiscal impact to SBFCA.