

***Marin County Flood Control and Water Conservation District***

**FLOOD CONTROL ZONE 3 ADVISORY BOARD MEETING**  
**OCTOBER 24, 2017**

**STAFF REPORT**

**Item 1. Approval of Meeting Minutes: May 25, 2017**

**Recommended Action:** Approve minutes.

**Item 2. Open Time for Items Not on the Agenda**

Comments will be heard for items not on the agenda (limited to three minutes per speaker).

**Item 3. Lower Marin City Drainage Study Presentation**

Wood Rogers has prepared a draft of the Marin City Flood Study and will present the draft findings of the study at this meeting. This will start a 30 day public comment period with all comments due November 24, 2017.

**Item 4. FEMA Hazard Mitigation Funding Opportunity- Lower Marin City Drainage Improvement Project**

District staff submitted a Notice of Interest (NOI) to CalOES and FEMA for grant funds for drainage improvements in the privately-owned Marin City pond. In September, CalOES informed the District that the NOI was approved which allows the District to submit a full grant application due November 1, 2017. These FEMA funds require a 25% match and must have a benefit to cost assessment (BCA) greater than 1. The District has retained Wood Rogers to prepare the full grant application. Wood Rogers has prepared a benefit cost analysis required by FEMA for the application and has identified which projects result in a  $BCA > 1$ . The identified improvement costs that meet the BCA requirement would constitute a \$1.5 M project (including soft costs). \$1,125,000 (75%) would be contributed by FEMA. Project details will be presented at tonight's meeting. Maintenance and operations responsibilities for any portion of the project on privately-owned facilities would need to be defined prior to the District accepting the grant funding. This grant would require up to \$375,000 (25%) in matching funds from Zone 3. Staff is recommending that the Advisory Board recommend the Marin County Flood Control & Water Conservation District Board of Supervisors approve this Zone 3 match of \$375,000 if the grant is awarded and other local funding sources cannot be confirmed.

**Recommended Action:** Recommend the District submit the grant application with the required Match Commitment letter indicating that if the District is awarded, and the Marin County Flood Control & Water Conservation District Board of Supervisors accepts the grant funding, that \$375,000 will be budgeted from Flood Zone 3 funds.

**Item 5. Zone Engineer's Report**

a. **Coyote Creek/Nyhan Creek Hydrologic and Hydraulic Study Update**

The Zone 3 Advisory Board (AB) approved a hydrologic and hydraulic study of Coyote and Nyhan Creeks as part of the FY 2017-18 budget. This study will help determine the need to remove sediment from Coyote and Nyhan Creeks. This type of study is required by the permitting agencies should there be a need to remove sediment. Staff released a Request

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For Proposals for this project, and a consulting firm was selected via a competitive process. On August 22, 2017, the Marin County Flood Control and Water Conservation District Board of Supervisors approved a contract with Cinquini & Passarino for \$69,278 to conduct the Study, and it is tentatively scheduled to be completed by 12/15/17.

b. Coyote Creek Tidal Reckoning Update

The Zone 3 AB approved the installation of a tide gage as part of the FY 2017-18 budget. This tide gage was to be used to help staff monitor tidal water surface elevations in Coyote Creek. A review of potential installation sites led to the conclusion that a permanent gage installation would involve placing a radar device and 10-foot tall antennae on the pedestrian bridge upstream of the State Route 1 Bridge. Staff considered this option, and concluded that the potential for negative public feedback on this type of installation would be high compared to the benefit the District would receive by having said permanent gage in place. Instead of a permanent gage, staff will conduct a tidal reckoning that will accomplish the same result as installing a permanent gage. This tidal reckoning involves placing a temporary pressure transducer on a bridge column on the pedestrian bridge downstream of the State Route 1 Bridge. Tidal data gathered by this temporary pressure transducer will be correlated with the NOAA tide gage at the San Francisco Golden Gate. This correlation factor will allow staff to monitor tide levels in Coyote Creek via the San Francisco Gage. Staff has contracted with CLE Engineering to install the temporary pressure transducer. Tidal data will be gathered from November 2017 to March 2018. The contract cost for this project is \$7,753.

c. Mill Valley Flood Study Amendment Update

At the May 25, 2017 AB meeting, the Z3 AB approved increasing by \$110,000 the amount of District funding for the Mill Valley flood studies. On August 22, 2017, the Marin County Flood Control & Water Conservation District Board of Supervisors approved an amendment to the flood studies agreement for an increase of \$110,000. A copy of the approved amendment is included in this board packet.

d. Tennessee Valley Pathway Wetland Restoration Project Update

As reported at the last AB meeting, staff has determined that the project location for the Tennessee Valley Pathway Wetland Restoration Project includes District-owned property and County-owned property. On May 25, 2017, the Z3 AB approved funds for the District's portion of this project. The County owned portion is being managed by Marin County Parks (Parks). The District will coordinate with Parks to complete the work because both portions of the project have similar scopes of work, and it will be more economical to have one contractor complete the project. Parks' 2017-18 budget does not include funds for this restoration. As such, the restoration will likely occur in the 2018-19 fiscal year when Parks is able to secure funding for their portion of the project.

e. Sediment Removal from Coyote Creek Concrete Channel Update

Due to the unavailability of proposed contractors and District forces, this work will likely take place in the spring/summer of 2018. In the meantime, staff will continue to monitor this reach of the creek, and deploy flood mitigation measures (sand bags) in areas that have been identified as potential low spots.

**Marin County Flood Control and Water Conservation District**

f. Community Rating System (CRS) Update

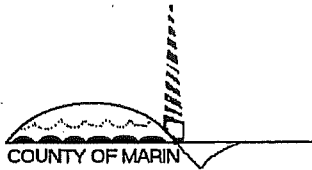
The Community Rating System (CRS) is a voluntary program for National Flood Insurance Program (NFIP) participating communities. The goals of the CRS program are to reduce flood damages to insurable property, strengthen and support the insurance aspects of the NFIP, and encourage a comprehensive approach to floodplain management. The County entered into the CRS program for the unincorporated communities in order to earn its property owners flood insurance premium discounts for the County's implementation of floodplain management practices that exceed the minimum requirements of the NFIP. The County was initially rated as Class 7, but have been working with FEMA to move to Class 6, increasing the discount to property owners from 15% to 20%. This increased discount will take effect when individual policies renew after May 2018. The Flood Control District encourages unincorporated area property owners to ask their insurers to prove that they received the CRS discount of 20%. For reference, the NFIP community identification number in Marin County is 06041C.

The following cities and towns are participants:

<b>Jurisdiction</b>	<b>CRS Rating</b>	<b>Insurance Discount</b>	<b>CRS Program Entry Date</b>
County of Marin	6 (effective 5/1/2018)	20%	5/1/2016
Town of Corte Madera	7	15%	10/1/2003
City of Novato	6	20%	10/1/1995
Town of San Anselmo	9	5%	5/1/2016
Town of Ross	8	10%	5/1/2015
Town of Fairfax	10	0%	N/A
City of Sausalito	10	0%	N/A
Town of Belvedere	10	0%	N/A
City of Larkspur	10	0%	N/A
City of San Rafael	10	0%	N/A
City of Mill Valley	10	0%	N/A
Town of Tiburon	10	0%	N/A

**Item 6. Next Meeting**

The next advisory board meeting is tentatively scheduled for December 7, 2017.



# FIRST ADDENDUM TO AGREEMENT

BY AND BETWEEN THE  
MARIN COUNTY FLOOD CONTROL AND WATER CONSERVATION  
DISTRICT AND THE CITY OF MILL VALLEY

THIS ADDENDUM is made and entered into this 22<sup>nd</sup> day of August 2017, by and between the MARIN COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, a political subdivision of the State of California (hereinafter referred to as "DISTRICT") and the CITY OF MILL VALLEY (hereinafter referred to as "CITY")

## RECITALS

WHEREAS, the DISTRICT and the CITY entered into an agreement funding flood studies for the CITY (FLOOD STUDIES FUNDING AGREEMENT BETWEEN MARIN COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT AND CITY OF MILL VALLEY REGARDING PHASE 2 RE-EVALUATION OF CONCEPTUAL FLOOD REDUCTION MEASURES ON ARROYO CORTE MADERA DEL PRESIDIO (ACMdP) AND COMPREHENSIVE FLOOD CONTROL AND DRAINAGE MASTER PLAN WITHIN FLOOD CONTROL ZONE NO. 3) dated July 19, 2016 ("Agreement"); and

WHEREAS, Section 4 of the Agreement set the funding level at \$320,000 for two separate flood studies: 1) \$55,000 for the *Phase 2 Re-Evaluation Of Conceptual Flood Reduction Measures On Arroyo Corte Madera Del Presidio (ACMdP)*, and 2) \$265,000 for the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*; and

WHEREAS, Section 24 of the Agreement requires that any changes to the Agreement must be approved in writing by all parties hereto; and

WHEREAS, the parties desire to amend the Agreement to increase the budget an additional \$110,000 for FY 2017-2018 to a total of \$375,000 for the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*; and

WHEREAS, the scope of work for the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3* includes a Phase 1 that includes, among other tasks, the development of said *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*, and Phase 1 shall be funded by the \$265,000 set forth in Section 4 of the original July 19, 2016 Agreement; and

WHEREAS, the scope of work for the additional funding amount of \$110,000 shall be used for the Phase 2 (Dated May 2017- Funding, Outreach and Environmental Analysis) of the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*; and

WHEREAS, the Phase 2 scope of work of *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3* includes a task to prepare a plan (FEE STUDY) for funding the City's storm drainage costs and conduct the research and analysis necessary to identify the various funding options best suited to the City's needs; and

WHEREAS, On May 25, 2017, the Flood Control Zone 3 Advisory Board recommended an increase in funding of \$110,000 for Phase 2 (Dated May 2017-Funding,

Outreach and Environmental Analysis) of the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*, and this recommended funding increase was contingent on the CITY agreeing to consult with the DISTRICT prior to the CITY pursuing a CITY tax measure for funding flood mitigation projects related to the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*; and

WHEREAS, This FIRST ADENDUM to the Agreement sets the funding level at \$430,000 for two separate flood studies: 1) \$55,000 for the *Phase 2 Re-Evaluation Of Conceptual Flood Reduction Measures On Arroyo Corte Madera Del Presidio (Acmdp)*, and 2) \$375,000 for the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*.

NOW, THEREFORE, the parties agree to modify Sections 1, 4, 6(4), Contacts and Notices, and Exhibit "A" of the Agreement as set forth below.

#### AGREEMENT

1. Except as otherwise provided herein all terms and conditions of the original agreement dated July 19, 2016 shall remain in full force and effect.

2. The following is hereby added to **Section 1: Recitals**:

4. WHEREAS, CITY agrees that the CITY will not pursue a tax measure without consulting with the DISTRICT prior to the CITY proceeding with a CITY parcel tax within the CITY limits for funding flood mitigation projects related to the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*.

3. **Section 4: Funding Levels** is hereby amended to read as follows:

The DISTRICT, upon receiving and auditing the billing, shall pay to CITY the cost requested towards performing such work, a sum not to exceed \$430,000. Of the \$430,000, \$55,000 will be made available beginning in FY 2015-2016 for the *Phase 2 Re-evaluation of Conceptual Flood Reduction Measures on Arroyo Corte Madera del Presidio (ACMDP)* study. Of the \$430,000, \$265,000 will be made available beginning in FY 2016-2017 for Phase 1 of the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*, and of the \$430,000, \$110,000 will be made available beginning in FY 2017-2018 for Phase 2 (Dated May 2017-Funding Analysis, Outreach and Environmental Analysis) of the *Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3*. All costs to complete these studies beyond the amounts stated here are to be funded by the CITY.

4. **Section 6: General Provisions**, subsection 4 (Limits on District Funds) is hereby amended to read as follows:

**4. LIMITS ON DISTRICT FUNDS.** DISTRICT shall provide funding to the CITY in

accordance with the terms of this AGREEMENT in the amount of \$430,000. No additional funds shall be available under this AGREEMENT.

5. In the **Contacts and Notices** section, the contact for the DISTRICT is hereby amended to read as follows:

For DISTRICT:

Anthony Williams  
Principal Civil Engineer  
Marin County Flood Control and Water Conservation District  
P.O. Box 4186, Room 304  
San Rafael, CA 94913 – 4186  
Phone: (415) 473-6432  
Email: [twilliams@marincounty.org](mailto:twilliams@marincounty.org)

6. **Exhibit A** is hereby amended to read as follows:

Exhibit A

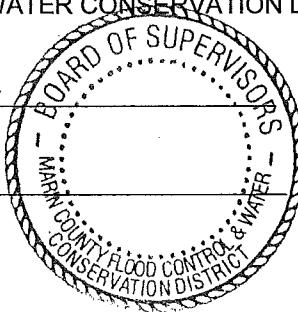
Flood Studies	Funding Amount Requested by City
Phase 2 Re-evaluation of Conceptual Flood Reduction Measures on Arroyo Corte Madera del Presidio (ACMdP)	\$55,000
This study will re-compute the flood frequency curve and refine the model that was the basis of the original 2012 Stetson study of ACMdP.	
Comprehensive Flood Control and Drainage Master Plan	\$265,000
Phase 1 of <i>Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3</i> will evaluate flooding that occurs on tributaries other than ACMdP, identify and evaluate the existing storm drain system citywide focusing on areas of localized flooding, and understand the interrelationship of high water in the tributaries and the areas of localized flooding.	
Phase 2 of the <i>Comprehensive Flood Control And Drainage Master Plan Within Flood Control Zone No. 3</i> will evaluate Funding Analyses, Outreach and Environmental Analysis.	\$110,000

IN WITNESS WHEREOF, the DISTRICT and the CITY have executed this Amendment as of the date first above written.

MARIN COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT (DISTRICT)

Judy Arnold

Date: 8/22/17



CITY of MILL VALLEY (CITY)

James C. McC...

Date: 7/12/17