

FLOOD CONTROL ZONE 4 ADVISORY BOARD STAFF REPORT
JANUARY 23, 2024

Item 1. Coordination with Caltrans Regarding Tiburon Blvd (MRN-131)

In the fall Caltrans released a Draft Initial Study with Proposed Negative Declaration for a pavement rehabilitation project (CAPM) on MRN-131 (Tiburon Blvd) between US 101 and Main Street. The draft document can be found here: <https://bit.ly/3FoHdsj>. The purpose of the project is to improve serviceability and ride quality on MRN-131 and restore existing drainage systems to reduce the potential for highway flooding and to increase the safety for the public. As a potential part of this project, Caltrans has evaluated a flood barrier to prevent sunny day flooding on MRN-131. However, due to budgetary needs to cut back the scope of work, the flood barrier elements are unlikely to move forward as part of this project.

Although the Flood District has no authority over the state, Caltrans has been keeping District staff informed of the progress on this project. The advisory board was informed at meetings regarding this coordination with Caltrans as indicated below:

- The sea level rise item in the 2020 Newsletter: <https://marinflooddistrict.org/zone-4-newsletter-september-2020/>.
- Item 4d at the April 27, 2022 advisory board meeting: https://marinflooddistrict.org/?post_type=document&p=9955&preview=true
- Item 4 at the October 25, 2022 advisory board meeting (last bullet of minutes) staff said they would ask Caltrans about incorporating the culvert rehabilitation for West Creek into the 131 CAPM: <https://marinflooddistrict.org/meetings/zone-4-advisory-board-meeting-october-25/>
- As part of Item 3 on April 25, 2023: <https://marinflooddistrict.org/meetings/zone-4-advisory-board-meeting-april-25-2023/> staff offered Caltrans an opportunity to mitigate for the loss of wetland vegetation between Greenwood Cove Dr and 131 if they configured valves in the storm drains such that they also protected Greenwood Cove Dr.

Caltrans received written comments (attached) on the Draft Initial Study from several residents of Flood Zone 4. These comments centered around the flood barrier and the West Creek culverts under MRN-131. Caltrans is providing a written response to these comments, although the subjects of the comments will not be included in the scope of work for the 131 CAPM project for budgetary reasons. Representatives from Caltrans will attend the January 2024 advisory board meeting to describe the project, however, the technical questions about hydraulics District staff received are no longer relevant due to the change in scope of work. Questions on this project should be directed to Caltrans.

Neighboring Greenwood Cove Dr., a County maintained road, also floods at high tides and this project will not benefit Greenwood Cove Dr. District staff met with Caltrans about suggested changes and additions to the project that would benefit Zone 4, including moving then-proposed valves to a location that would benefit Greenwood Cove Dr., and rehabilitating visibly corroded corrugated metal culverts under MRN-131 between West Creek and Saltworks Canal. Though Caltrans did not incorporate the requested changes into this project due to perceived environmental and fiscal impacts, Caltrans cannot make flooding worse on

Marin County Flood Control and Water Conservation District

neighboring Greenwood Cove Dr. District staff will continue working with Caltrans separately from the pavement rehabilitation project regarding the corroded metal culverts, and will coordinate with the County Public Works Engineering division regarding protecting Greenwood Cove Dr.



Photo of Greenwood Cove Dr and SR 131 during King Tide from Mark Morancy (Caltrans).

Item 2. Approve Meeting Minutes: July 25, 2023

Draft minutes and the presentation can be found here:

<https://marinflooddistrict.org/meetings/zone-4-advisory-board-meeting-july-25-2023/#/tab-minutes>

Recommended Action: Approve Minutes

Item 3. Open Times for Items Not on the Agenda

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

Item 4. Channel Capacity Improvement Options at East and West Creek

At the October 2022 meeting, civil engineer and geomorphologist Matt Smeltzer of Geomorph Design Group provided the advisory board a presentation on the hydraulics and geomorphology of Zone 4 watersheds. The advisory board then requested preparation of cost estimates for potential conceptual measures identified for East and West Creeks. These were presented to the advisory board on July 25, 2023 (linked in minutes in Item 1), and based on feedback from the advisory board at that meeting, Geomorph Design Group has prepared an Executive Summary for Flood Risk Reduction Alternatives at East and West Creek which is posted on the website: <https://marinflooddistrict.org/documents/executive-summary-for-flood-risk-reduction-alternatives-at-east-and-west-creeks/>

Marin County Flood Control and Water Conservation District

In July the advisory board recommended proceeding with design for the East Creek “Medium Plan” and the West Creek “Medium Plan 3-2” as described in the Executive Summary. These Plans represent small-scale creek restoration projects totaling about \$2M in implementation cost. District staff indicated they would refine the scope of work for a proposed design contract for these restoration projects and return to the advisory board for a recommendation to proceed with the project at an upcoming advisory board meeting.

The proposed scope of work is to design and complete environmental review for restoration projects on East and West Creeks. In East Creek this involves preparing plans and specifications for removing accumulated debris and sediment from 50/80 Harriet Way up to Karen Way (approximately 1,320 feet long). This will include design of appropriate biotechnical bank erosion protection through this creek reach. The design engineer will also design add-on options (which would increase implementation cost above the estimate) for:

- 1) installation of a top of bank barrier along 100-130 Leland Way (about 350 feet long),
- 2) installation of a sediment basin near Karen Way to reduce sedimentation downstream where it is more difficult to access,
- 3) plugging or valving of the Town of Tiburon’s 6” storm drain outfall at the Cecilia way crossing, and
- 4) gating or valving of the East Creek outfalls to the Bay.

In West Creek the scope of work would include design and environmental for the following proposed project elements:

- 1) Remove rubble (foreign rock and broken concrete) from the creek between SR 131 and 80 Rancho Dr, and Cecilia Way and 180 Rancho Drive.
- 2) Remove concrete channel stormwater outfall around 143 Blackfield Drive and replace it with a rock lined channel and appropriate biotechnical bank erosion protection,
- 3) Remove three non-native poplars and one non-native eucalyptus from in-stream, and
- 4) Stabilize banks (e.g. rock rip-rap) to enlarge channel at location of removed in-channel trees

Recommended Action: Recommend the District Board of Supervisors award a design and environmental compliance contract for Restoration of East and West Creeks as scoped in this staff report, with a budget no more than \$400,000.

The District now has a Civil Engineer vacancy. In order to ensure quality, design of this project needs to be put on hold until this vacancy is filled or until one of the major construction projects elsewhere in the District are completed (year 2025).

Marin County Flood Control and Water Conservation District

Item 5. Interim Bank Stabilization Questions on East and West Creeks

Until creek restoration projects referenced in Item 4 can be constructed (pending permission from private property owners), residents raised questions about bank stability in the interim. East and West Creeks are privately owned. The Flood District has drainage easements which allow for removal of blockages to flow, contingent upon approval from environmental regulatory agencies. Under regulatory permits for regular stream maintenance, the District can conduct work to clear East and West Creek from June through October. Emergency permitting outside of that period is possible if permitting agencies agree there is an imminent threat. Before, during, and after major storms District staff patrol the creeks to see if such situations are developing and will work with contractors or maintenance crews to clear blockages if needed.

Property owners can also pursue permits for bank stabilization to protect their properties. They should hire professionals experienced in biotechnical bank stabilization techniques and get early input from the regulatory agencies at the free Marin Project Coordination meetings held monthly on Zoom. For information visit the website (<https://mcstoppp.org/marin-project-coordination-meetings/>) or email Howard.Bunce@marincounty.gov.

Item 6. Review Proposed Budgets for FYs 2024-25 and 2025-26

Every two years the advisory board is asked to recommend a baseline budget for Zones 4 and 4A. The proposed budgets attached would cover the two fiscal years from July 1, 2024 through June 30, 2026. The request at this time is to recommend a baseline budget, which does not include major project expenses, and is intended to be relatively consistent from year to year. Major project expenses, like design contracts and construction contracts, will have to be accompanied by additional recommendations for budget amendments. The items shaded green represent the baseline budget items for your board to focus on at this time. All other items - shaded gray and white - are not part of the action to approve the baseline budget but are being provided for general context. There will be opportunities to discuss the gray items at other meetings before your board is asked to vote on those.

Following is a proposed budget summary and details are attached. The current year "Revised" budget includes contract encumbrances from prior fiscal years carried forward, in addition to the baseline budget and approved budget adjustments for the current fiscal year.

Recommended Action: Recommend the District Board of Supervisors approve the proposed budgets.

Proposed Fiscal Years 2024-2026 Baseline Budget for Flood Zone 4:

Description	2024 Baseline	2024 Revised	2025 Proposed	2026 Proposed	2023 Actual
Revenue Total	\$898,320	\$928,600	\$930,420	\$930,420	\$1,031,784
Maintenance	\$100,000	\$136,974	\$100,000	\$100,000	\$102,872
Misc. Expense	\$30,000	\$30,000	\$30,000	\$30,000	\$1,266

Marin County Flood Control and Water Conservation District

Professional Services	\$50,000	\$88,685	\$50,000	\$50,000	\$60,868
Construction/Trade Services	\$0	\$0	\$0	\$0	\$0
Utilities	\$15,000	\$15,000	\$15,000	\$15,000	\$12,993
Service & Supplies Total	\$195,000	\$270,659	\$195,000	\$195,000	\$178,146
Staff Labor	\$271,950	\$271,950	\$233,860	\$288,876	\$139,306
Expenditures Total	\$466,950	\$542,609	\$429,860	\$483,876	\$318,012
Projected/Actual Fund End Balance		\$4,296,881	\$4,798,441	\$5,244,986	\$3,910,891

Proposed Fiscal Years 2024-2026 Baseline Budget for Flood Zone 4A:

Description	2024 Baseline	2024 Revised	2025 Proposed	2026 Proposed	2023 Actual
Revenue Total	\$6,304	\$6,966	\$6,504	\$6,504	\$7,092
Maintenance	\$4,000	\$4,000	\$15,000	\$15,000	\$0
Misc. Expense	\$500	\$500	\$500	\$500	\$0
Professional Services	\$0	\$0	\$0	\$0	\$0
Construction/Trade Services	\$0	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$0	\$0
Service & Supplies Total	\$4,500	\$4,500	\$15,500	\$15,500	\$0
Staff Labor	\$0	\$0	\$0	\$0	\$0
Expenditures Total	\$4,500	\$4,500	\$15,500	\$15,500	\$0
Projected/Actual Fund End Balance		\$53,188	\$44,192	\$35,196	\$50,722

Item 7. Next Meeting

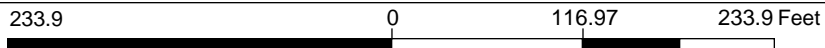
If needed, the next quarterly meeting is April 23rd, 2024 at 6:30pm.



Legend

- Address
- Parcel Secured
- Elevation_2019_NAVD88_2Ft
 - Interior
 - Index
- Condominium Common Area
- City
- Community
- Marin County Legal Boundary
- Other Bay Area County
- Ocean and Bay
- Catch Basin
- Manhole
- Pump Station
- Structure
- Pond
- Channel
- Pipes
- DMA FACILITY
- Stream - Perennial (NHD)
- Stream - Intermittent (NHD)
- Stream - Ephemeral (NHD)
- Area (NHD)
 - CanalDitch
 - DamWeir
 - Foreshore
 - SeaOcean
 - Spillway

1: 1,404



Notes

Caltrans State Route 131 CAPM Project IS/ND- Comments by Marin County Flood Control Advisory Board Zone 4 Members and Residents

From: Kathryn Oliver (oliverkn@sbcglobal.net)
To: sr131capmproject@dot.ca.gov
Cc: smoultonpeters@marincounty.org; hlee@marincounty.org
Date: Thursday, November 2, 2023 at 03:26 PM PDT

To: Caltrans
From: Marin County Flood Control Advisory Board Zone 4 Members and Residents

We are submitting the following comments on the draft IS/ND applicable to the State Route 131 CAPM Project. As members and/or residents of Zone 4 of the Marin County Flood Control Advisory Board, our mission is to protect our "zone" from potential and actual flooding. Zone 4 consists generally of the BelAir neighborhood of Tiburon, as well as the Greenwood Cove area. These comments reflect our serious concern about certain elements of this Project that we believe are likely or certain to increase the risk of flooding, as well as the failure to include other work that is known to Caltrans to be necessary now to avoid flooding.

Thank you for the opportunity to participate in this process and to submit comments.
Kathryn Oliver, FCAB Zone 4 Chairperson

Comments by Carolyn Shadan, Flood Control Advisory Board Zone 4 Member:

I request that Caltrans address and mitigate the deterioration of the storm drain delivery pipes that cross under Tiburon Blvd. and are owned by Caltrans. These pipes deliver stormwater to Salt Works Creek from the surrounding neighborhoods.

A Preliminary Flood Risk Reduction Alternatives Study and Report prepared by Geomorph Design, dated July 18, 2023, for the County of Marin Flood Control and Water Conservation District identified the deteriorated condition and failure potential of the two Corrugated Metal Pipes (CMP) owned by Caltrans. These 60-inch CMP pipes that cross under State Route 131 are an integral part of the stormwater delivery system to prevent flooding in the Cove Watershed. Failure of these pipes creates not only the possibility of flooding, **but also shutting down part or all of Tiburon Blvd., Hwy. 131.**

The deteriorated condition can be viewed at the confluence between Salt Works Creek and Tiburon Blvd. as shown in the photos below.

Caltrans does propose replacing two 18 inch CMPs on the eastbound and westbound shoulders of the road near Blackfield Drive as part of this CAPM project. Replacement of the two other CMPs described above also is necessary, and falls within the scope of this project. In fact, Caltrans' representative admitted during the virtual public meeting which it hosted on 10/26/23 that it has knowledge of the deteriorating condition of the pipes and the need to replace them now.

PROPOSED Flood Zone 4 Baseline Budget FYs 2024-2026

NOTE: REVENUES ARE REPRESENTED AS NEGATIVE NUMBERS AND EXPENDITURES AS POSITIVE, BUT A POSITIVE FUND BALANCE IS POSITIVE

Record No.	Description	2023 Baseline Budget	2024 Baseline Budget	2024 Revised Budget*	2025 Proposed Budget	2026 Proposed Budget	2024 Actual as of 1/10/24	2023 Actual	2022 Actual	Notes
1	Property Tax - Current Unsecured	-14,500.00	-14,500.00	-14,529.25	-14,500.00	-14,500.00	-14,529.25	-15,084.24	-14,509.78	
2	Property Tax - Current Secured	-760,000.00	-780,000.00	-780,000.00	-780,000.00	-780,000.00	-485,441.80	-837,729.01	-790,428.19	
3	Property Tax - Current Secured - Uni	-4,000.00	-5,000.00	-5,000.00	-5,000.00	-5,000.00	-3,137.90	-5,690.02	-4,966.83	
4	Property Tax - Prior Unsecured	-500.00	-700.00	-845.91	-800.00	-800.00	-845.91	-836.73	-829.09	
5	Supplemental Property Tax - Current	-12,000.00	-20,000.00	-20,000.00	-20,000.00	-20,000.00	-4,877.84	-29,414.73	-26,331.21	
6	Supplemental Property Tax - Current Unsecured	-300.00	-600.00	-600.00	-600.00	-600.00	0.00	-967.44	-579.56	
7	Supplemental Property Tax PR Redm	-450.00	-500.00	-500.00	-500.00	-500.00	-57.26	-725.29	-435.62	
8	Current Educational Revenue Augmentation Fund (ERAF)	-3,500.00	-7,000.00	-10,064.95	-7,000.00	-7,000.00	-10,064.95	-7,453.35	-10,185.49	
9	Excess ERAF	-50,000.00	-70,000.00	-70,000.00	-70,000.00	-70,000.00	-39,445.54	-67,013.28	-74,371.90	
10	Investment Income - Interest Pooled	-11,500.00	-8,000.00	-34,458.67	-40,000.00	-40,000.00	-34,458.67	-43,955.32	-1,861.23	
11	Investment Income - ERAF Interest	-20.00	-20.00	-100.92	-20.00	-20.00	-100.92	-3.22	-21.45	
12	Unrealized Gains	0.00	0.00	0.00	0.00	0.00	0.00	-30,544.64	30,544.64	
13	Homeowner Property Tax Relief	-3,000.00	-3,000.00	-3,000.00	-3,000.00	-3,000.00	-1,555.85	-3,152.80	-3,195.36	
14	SB2557 Admin Fee	11,000.00	11,000.00	11,000.00	11,000.00	11,000.00	5,035.81	10,786.52	10,345.30	
16	Misc. Revenue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	Transfers In	0.00	0.00	-500.00	0.00	0.00	-500.00	0.00	0.00	deposit return for meeting room rental
18	Total Revenue Budget/Actuals:	-848,770.00	-898,320.00	-928,599.70	-930,420.00	-930,420.00	-589,980.08	-1,031,783.55	-886,825.77	
19										
20	Maintenance of Buildings and Improvements	100,000.00	100,000.00	136,973.90	100,000.00	100,000.00	69,368.52	102,872.30	52,336.18	clearing creeks, trash racks, and refurbishing pumps
21	Membership	0.00	0.00	0.00	0.00	0.00	0.00	148.00	0.00	
22	Miscellaneous Expenses	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	1,887.81	1,265.80	809.25	hardware, room rental
23	Professional Services	50,000.00	50,000.00	88,685.00	50,000.00	50,000.00	12,840.00	60,867.68	806.00	engineering and biological consulting services, etc.
24	Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,053.78	
26	Utilities - Electric	14,000.00	14,000.00	14,000.00	14,000.00	14,000.00	6,065.08	11,781.19	6,831.04	
27	Utilities - Water	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	604.45	1,211.31	1,448.17	
28	Total Services & Supplies Budget/Expenditures:	195,000.00	195,000.00	270,658.90	195,000.00	195,000.00	90,765.86	178,146.28	64,284.42	
29										
30	Water Resources Staff Costs	235,900.00	235,900.00	235,900.00	152,505.00	157,080.15	44,047.29	128,559.78	94,788.02	project and contract management, administration, reports
31	Building Maintenance Staff Costs	36,050.00	36,050.00	36,050.00	24,000.00	24,720.00	0.00	11,305.65	13,832.48	regular O&M of pump stations
32	Real Estate Staff Costs	0.00	0.00	0.00	0.00	24,000.00	0.00	0.00	0.00	anticipating support for potential creek projects
33	Engineering Division Staff Costs	0.00	0.00	0.00	0.00	24,000.00	0.00	0.00	0.00	anticipating support for potential creek projects
34	Vehicle Maintenance Staff Costs	0.00	0.00	0.00	1,500.00	1,545.00	0.00	0.00	0.00	engine and generator maintenance
35	Roads Division Staff Costs	0.00	0.00	0.00	1,200.00	1,236.00	0.00	0.00	0.00	mowing
36	Indirect Cost Allocation (A87)	0.00	0.00	0.00	54,654.89	56,294.54	0.00	0.00	53,063.00	https://marinflooddistrict.org/california-office-of-management-a
	Total Staff Costs (Salaries, Benefits, Overhead):	271,950.00	271,950.00	271,950.00	233,859.89	288,875.69	44,047.29	139,865.43	161,683.50	
	Total Expenditures Budget/Actuals:	466,950.00	466,950.00	542,608.90	428,859.89	483,875.69	134,813.15	318,011.71	225,967.92	
	Projected Fund End Balance:			4,296,881.35	4,798,441.46	5,244,985.77				
	<i>FY 2022-23 Fund End Balance:</i>	<i>3,910,890.55</i>								

*Currently the revised budget for this fiscal year is the baseline budget, plus encumbered contracts from prior fiscal years carried forward.

PROPOSED Flood Zone 4A Baseline Budget FYs 2024-2026

NOTE: REVENUES ARE REPRESENTED AS NEGATIVE NUMBERS AND EXPENDITURES AS POSITIVE, BUT A POSITIVE FUND BALANCE IS POSITIVE

Record No.	Description	2023 Baseline Budget	2024 Baseline Budget	2024 Revised Budget*	2025 Proposed Budget	2026 Proposed Budget	2024 Actual as of 01/10/24	2023 Actual	2022 Actual
1	Property Tax Current Secured Benefit Tax	-6,160.00	-6,160.00	-6,160.00	-6,160.00	-6,160.00	-3,388.00	-6,160.00	-6,160.00
2	Investment Income - Interest Pooled	-200.00	-200.00	-446.37	-400.00	-400.00	-446.37	-571.42	-26.39
3	Investment Income - Unrealized Gain	0.00	0.00	-416.08	0.00	0.00	0.00	-416.08	416.08
4	Tax Collector Fee Administration	56.00	56.00	56.00	56.00	56.00	42.00	56.00	56.00
5	Transfers In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Revenue Budget/Actuals:	-6,304.00	-6,304.00	-6,966.45	-6,504.00	-6,504.00	-3,792.37	-7,091.50	-5,714.31
7	Maintenance of Buildings and Improvements	4,000.00	4,000.00	4,000.00	15,000.00	15,000.00	0.00	0.00	0.00
8	Miscellaneous Expenses	500.00	500.00	500.00	500.00	500.00	0.00	0.00	0.00
	Total Expenditure Budget/Actuals:	4,500.00	4,500.00	4,500.00	15,500.00	15,500.00	0.00	0.00	0.00
	Projected Fund End Balance:			53,188.45	44,192.45	35,196.45			50,722.00

Comments by John Leszczynski, Flood Control Advisory Board, Zone 4 Resident:

Caltrans proposes constructing a 320 foot long sea wall along Tiburon Blvd. in the vicinity of Greenwood Cove Drive to address sea level rise. This plan is unacceptable, because it actually would **increase** flooding on **both** sides of the sea wall, and substantially worsen the flooding problem that already exists along that portion of Tiburon Blvd. and Greenwood Cove Drive.

The plan to place the sea wall along the shoulder of eastbound Tiburon Blvd. would channel additional rainfall and potential flooding onto eastbound Tiburon Blvd. At the same time, seawater would be flooding onto Greenwood Cove Drive, on the *other* side of the sea wall, through the buildings and parking lots at the lower end of the condo/apartment complex near the '76 gas station. A flooding problem already exists on the Greenwood Cove Drive side, because the existing "drainage system" for the building complex is no longer functional. It consists of approximately 12 scattered drainage boxes under the road and in the parking lots which are connected to a single 18 inch diameter drain pipe that empties into Greenwood Cove Bay. Because the pipe is now at the cove's "mean sea level" due to sea level rise, it can no longer drain any meaningful amount of rainfall. The added sea wall will only worsen flooding on both sides of the wall.

Westbound Tiburon Blvd. also would be inundated more than usual because of water flowing onto it that usually would be directed elsewhere if the sea wall were not present. This is particularly a problem at the heavily used intersection of Tiburon Blvd. and Blackfield Drive, the access to the Cove Shopping Center.

The best location for a sea wall to effectively protect the coastline in this area from sea level rise would be out in Greenwood Cove Bay. However, that is beyond the scope of this project.

Conclusion

It is unacceptable for Caltrans to be willing to spend millions of dollars on "nice-to-have's" like bike lanes, while ignoring problems with basic infrastructure that have the potential to cause flooding in the surrounding neighborhood, and possibly a collapse of Tiburon Blvd.



fcab comments- caltrans proj 2023.jpg

262.3kB



fcab comments- caltrans proj(2).jpg

205.9kB