American River Flood Control District Central Valley Flood Protection Board Permit Applications 1620 & 1622 McClaren Road

Staff Report

Discussion:

The parcel owners at 1620 McClaren Road (Friedman) and 1622 McClaren Road (Bass) in Carmichael, California seek to obtain encroachment permits to construct bank protection work along their properties on the north bank of the American River. The proposed project is to remove existing gunnite bank protection that has failed and replace it with rock revetment. The work will require demolition and removal of the existing gunnite and then excavation to prepare an inset surface in the bank to install the new revetment. The permit application also includes a request to have a name change on the original permits for bank protection issued to previous residents at these locations.

All of the work described in these applications are outside the levee prism and toe area and the work will not have an impact on the District levee.

California Environmental Quality Act:

The applicants for this work believe their project requires CEQA documentation. Under CEQA, a government agency must fulfill the role as the CEQA lead agency. The representative for the applicants asked if the District could be the CEQA lead agency. The District has never been the CEQA lead agency for a private encroachment permit. Similar work as that proposed under this application was conducted at 1870 Claremont Road and that work listed Sacramento County as the CEQA lead agency.

Recommendation:

The General Manager recommends that the Board of Trustees endorse the permit application and suggest that the applicant seek having Sacramento County serve as the CEQA lead agency.

DEPARTMENT OF WATER RESOURCES CENTRAL VALLEY FLOOD PROTECTION BOARD

California Natural Resources Agency

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

Application No. _

(For Office Use Only)

1. Description of proposed work being specific to include all items that will be covered under the issued permit.

The proposed project is to repair the damaged bank protection site along the American River located at 1620 McClaren Drive in Carmichael, CA. The original protection has visible cracks and the bank material beneath is exposed and eroding. This application covers approximately 160 feet of the bank repair work. We are also requesting that permit 4352 issued to Jack Steiner on August 5, 1963 be transferred to Ms. Marcy Friedman.

2.	Project	Sacramento		County in Section	56
			(N)	Oounty, in Occuor	(F)
	Township:	9 North	(S), Range:	6 East	(W), M. D. B. & M.
	Latitude:	<u>38.594179°</u>	Longitude:	-121.333174°	_
	Stream :	American River	, Levee :	North	Designated Floodway: <u>Yes</u>
	APN:	28902830440000			
3.	Ms. Marcy	/ Friedman		of 1620 McClaren [Drive
		Name of Applicant / Land O	wner		Address
Carn	nichael	CA		95608	
	City		State	Zip Code	Telephone Number
					marcy@marcyfriedman.com E-mail
4.	Jay Punia	Name of Applicant's Paperson	ntotivo	of <u>Wood Rodgers I</u> r	nc.
		Name of Applicant's Represe	halive		Company
Sacra	amento	<u>CA</u>		95816	(916) 870-0770
	City		State	Zip Code	Telephone Number
					jpunia@woodrodgers.com
					E-mail
5.	Endorseme	nt of the proposed project	from the Local N	Aaintaining Agency (LMA	A):
We, tl	he Trustees	ofNa	ame of LMA	approve th	is plan, subject to the following conditions
	Conditio	ns listed on back of this for	rm	Conditions Attached	No Conditions
Trus	tee		Date	Trustee	Date
Trus	tee	****	Date	Trustee	Date

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

6. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

	Name	Address	Zip Code
See	attached		
•••			
7.	Has an environmental determination been Act of 1970?	made of the proposed work under the Califo] No Pending	rnia Environmental Quality
lf y	es or pending, give the name and address o	of the lead agency and State Clearinghouse	Number:
SC	H No.		
8.	When is the project scheduled for construct	tion?	
9.	Please check exhibits accompanying this a	application.	
	A. I Regional and vicinity maps showing	g the location of the proposed work.	
	B. I Drawings showing plan view(s) of t	he proposed work to include map scale.	
	C. I Drawings showing the cross section banks, flood plain,	n dimensions and elevations (vertical datum	?) of levees, berms, stream
	D. I Drawings showing the profile eleva	tions (vertical datum?) of levees, berms, floo	d plain, low flow, etc.
	E. I A minimum of four photographs de	picting the project site.	
		Signature of Apr	licant Date
Inc	lude any additional information:		Date
<u>See</u>	the attached plans, specifications and x-sec	ctions	

DEPARTMENT OF WATER RESOURCES CENTRAL VALLEY FLOOD PROTECTION BOARD

California Natural Resources Agency

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

Application No. _

(For Office Use Only)

1. Description of proposed work being specific to include all items that will be covered under the issued permit.

The proposed project is to repair the damaged bank protection site along the American River located at 1622 <u>McClaren Drive in Carmichael, CA 956. The original protection has visible cracks and the bank material beneath</u> is exposed and eroding. This application covers approximately 90 feet of the bank repair work. We are also requesting that permit 4902 issued to Jamee Eddy on April 5, 1965 be transferred to Dr. Lawrence Bass.

2.	Project Location:	Sacramento		County in Secti	on 56
			(NI)		(E)
	Township:	9 North	(N) (S), Range:	6 East	(⊂) (W), M. D. B. & M.
	Latitude:	38.594179°	Longitude:	-121.333174°	<u> </u>
	Stream :	American River	, Levee :	North	Designated Floodway: Yes
	APN:	28902830440000			
3.	Dr. Lawre	nce Bass	<u></u>	of <u>1622 McClarer</u>	1 Drive
		Name of Applicant / Land	Owner		Address
Carn	nichael	CA		95608	
	City		State	Zip Coo	de Telephone Number
					ljbass@surewest.net
					E-mail
4.	Jay Punia	Name of Applicant's Repres	entativo	of <u>Wood Rodgers</u>	Inc.
		Name of Applicant a Repres	entative		Company
Sacr	amento	CA		95816	(916) 870-0770
	City		State	Zip Coo	le Telephone Number
					jpunia@woodrodgers.com
					E-mail
5.	Endorseme	ent of the proposed project	t from the Local I	Maintaining Agency (LN	<i>М</i> А):
We, tl	he Trustees	of		approve	this plan, subject to the following conditions
		Ν	lame of LMA		
	Conditio	ons listed on back of this fo	orm 🗌	Conditions Attached	No Conditions
Trus	itee		Date	Trustee	Date
Trus	itee		Date	Trustee	Date

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

6. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

See attached	Name	Address	Zip Code
7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970? 7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970? 7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970? 7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970? 7. Has an environmental determination been made of the proposed work under the California Environmental Quality Types of the proposed work under the California Environmental Quality SCH No. 9. Please check exhibits accompanying this application. A. I Regional and vicinity maps showing the location of the proposed work. B. I Drawings showing plan view(s) of the proposed work to include map scale. C. I Drawings showing the cross section dimensions and elevations (vertical datum?) of levees, berms, stream banks, flood plain, now flow, etc. E. I A minimum of four photographs depicting the project site.	See attached		
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Include any additional information:	E. I A minimum of four photographs d	epicting the project site.	
Include any additional information:			
Include any additional information:		Signature of Ap	plicant Date
See the attached plane, energifications and viscostions	Include any additional information:	ections	

TECHNICAL MEMORANDUM

TO:	Mr. Jonathan Kors, PE
FROM:	Mr. Jay Punia, PE Mr. Chuck Hilliard, PE
DATE:	August 22, 2019
SUBJECT:	Project Description – Friedman and Bass Revetment Replacement Project 1620 and 1622 McLaren Drive, Carmichael, California

INTRODUCTION

At the right bank of the American River near U.S. Army Corps of Engineers (USACE) River Mile (RM) 13.4, the gunite bank protection that was installed in early 1960s is failing and needs to be replaced with a more robust design. The attached exhibit shows the location and the initial design for restoring the erosion protection at this site. The gunite extends approximately 250 lineal feet along the bank line and includes Dr. Bass' and Mrs. Friedman's properties along the river. Dr. Bass's property extent is the upstream (approximately) 90 feet of bank line, while Mrs. Friedman's is the remaining downstream 160 feet. The vertical extents of the gunite extend from the toe of the slope below the low summer water levels up to the top of the river bank. Dr. Bass's pool and retaining wall are located near the top edge of the river bank, while Mrs. Friedman's fence, gate, and landscaped structures are located near the top of the slope.

The purpose of this Technical Memorandum is to provide the needed information for preparing the CEQA/NEPA analyses and to describe the project to regulatory agencies.

PROJECT DESCRIPTION

The proposed project will replace the existing gunite bank protection with Rock Slope Protection (RSP) and will meet or exceed the erosion control standard prescribed in the California Code of Regulations, Title 23, Article 8, Section 121. Based on the initial input from the Central Valley Flood Protection Board (CVFPB), two separate permit applications will be submitted. Application number one (on behalf of Dr. Bass) will cover a portion located approximately 90 feet (upstream) of the project, and a second application (on behalf of Mrs. Friedman) will cover the remaining 160 feet.

SITE CHARACTERISTICS

• The banks are steep at this location and could become steeper with increased scour at the toe of the bank.

- Flow velocities are very high at or above the toe of the bank.
- Bank material can be mobilized at all flows.
- Toe scour is possible at the estimated velocities, which could encourage bank failure.
- Erosion behind the gunite wall is evident and with continued failure of the gunite wall could become worse.
- Further erosion and bank failure would likely lead to structural damage of Dr. Bass's retaining wall and pool, as well as Mrs. Friedman's staircase, fence, and lawn.

PROPOSED DESIGN

As shown in attached Project Overview Exhibit (**Exhibit 1**), the existing gunite structure would be removed, and angular rock toe (launch-able) and slope revetment would be placed to arrest erosion and stabilize the bank at this location. The proposed design is based on recommendations developed in the Northwest Hydraulic Consultants (NHC) Report (December 6, 2019), and will meet or exceed the erosion control standard prescribed in the California Code of Regulations, Title 23, Article 8, Section 121.

ACCESS

The project site is accessible from Mrs. Friedman's property through a gate near the top of the slope and down concrete steps constructed into the gunite protection. There is no existing access for construction equipment to reach the bottom of the steep slope through Mrs. Friedman's property. Dr. Bass has a small boat ramp that passes through the upstream extent of the gunite protection. The boat launch connects to Dr. Bass's driveway and is a feasible location for equipment access to reach the bottom of the slope.

CONSTRUCTION SEQUENCE

The original gunite bank protection will be removed and hauled away from the project site, with the exception of the concrete anchor block at the waterside toe of the riverbank. The anchor block will remain in its current location, or will be relocated (shifted laterally) as necessary to accommodate the placement of the new rock slope protection.

Debris and vegetation will be removed from the riverbank slope. The bank slope will be excavated as necessary to create a 24-inch-deep inset for placing the Rock Slope Protection (RSP). Before RSP is placed, geotextile filter fabric will be placed there to prevent bank materials from eroding through RSP material. Revetment will be placed uniformly and transitioned into the bank slope. Topsoil materials will be placed over the rock (within the rock interstitial spaces) to facilitate vegetative growth.



CONSTRUCTION SCHEDULE

<u>Activity</u>	Month/Year
Permits	October 2019–April 2020
Advertise Const. Contract	May–June 2020
Actual Construction	June-Sept. 2020

EQUIPMENT

Construction Phase	Number of Each Equipment Type	Duration of Use (Days)
Removing and hauling existing gunite bank protection	Excavator with demolition attachment (hydraulic hammer), skid-steer loader, front-end loader, hauling trucks (1-2).	5-7 days
Clearing and grubbing/ stripping	Front-end loader, skid-steer loader, haul trucks, pickup trucks	5-7 days
Placing geotextile filter fabric on slope	Manual labor	3-5 days
Placing rock slope protection revetment	Front-end loader, excavator, haul trucks, and backhoe	15-20 days

MATERIALS DELIVERY

Typical deliveries and hauling for the project would include the rock slope protection, geofabric and bedding material needed to reconstruct the bank slope. The existing gunite and demolition debris would be hauled away to the nearest disposal site.

The project will require approximately 840 tons of rock to be imported and installed on site, and approximately 115 tons of gunite and concrete will be demolished and removed from the site. These number will be revised once the design is finalized.

REFERENCES

1. Northwest Hydraulic Consultants Report (December 6, 2018) to Mrs. Friedman and to Dr. Bass





J:\1000-s\1995_Friedman_Bass_Friedman_Bass_Amer_River_Erosion\GIS\Tasks\Project_Overview_Exhibit_11x17.mxd 6/17/2019 3:52:24 PM chilliard

FRIEDMAN & BASS PROPERTIES REVETMENT REPLACEMENT PROJECT



<u>OWNERS:</u>

MRS. FRIEDMAN 1620 McCLAREN DRIVE, CARMICHAEL, CALIFORNIA 95608 DR. BASS

DR. BASS 1622 McClaren Drive, Carmicheal, California 95608

SHEET INDEX

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1	G-001	TITLE SHEET AND SHEET INDEX
2	G-002	GENERAL NOTES AND SPECIFICATIONS
3	C-101	GENERAL PLAN
4	C-102	SITE ACCESS PHOTOS
5	C-103	EXISTING SITE PHOTOS
6	C-201	CROSS SECTIONS STA 0+50 TO 0+80
7	C-202	CROSS SECTIONS STA 0+90 TO 1+20
8	C-203	CROSS SECTIONS STA 1+30 TO 1+60
9	C-204	CROSS SECTIONS STA 1+70 TO 2+00
10	C-205	CROSS SECTIONS STA 2+10 TO 2+40
11	C-301	TYPICAL SECTIONS (1 OF 2)
12	C-302	TYPICAL SECTIONS (2 OF 2)
13	C-303	ALTERNATIVE CONCRETE RAMP







designed by: C. Hilliard	POFESSION			FDIEDM
DRAWN BY:	A C W. HIV			
J. KAUP			DDGERS	
CHECKED BY:	HI H	DEVELOPING • INNOVAI 3301 C STREET, BLDG. 100-	IVE • DESIGN • SOLUTIONS -B, SACRAMENTO, CA 95816	REVETME
J. KURS		PHONE: (916) 341-776	0 FAX: (916) 341-7767	
IN CHARGE:	xp.6-30-21 *			
C. HILLIARD				
DATE:	E OF CALLFORM			
xx/xx/xxxx		SUBMITTED	APPROVED	

60% DESIGN

NOTES AND SPECIFICATIONS TO BE ADDED

												DESIGNED BY: C. HILLIARD	PROFESSION			FRIEDN
												DRAWN BY:				
												J. KAUP			DDGERS	
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												C. HILLIARD				
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Item 6&7

60% DESIGN

AN & BASS PROPERTIES	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST			
ENT REPLACEMENT PROJECT	SCALES FOR REDUCED PLOTS			
AL NOTES AND SPECIFICATIONS		SHEET		



DESIGNED BY: C. HILLIARD DRAWN BY:	PROFESSION			FRIEDMAN & BASS PROPERTIES	VERIFY SCA BAR IS ONE INCH ORIGINAL DRAWING	ALES ON . ADJUST
J. KAUP CHECKED BY: J. KORS	REGISSIE A	DEVELOPING • INNOVAT 3301 C STREET, BLDG. 100- PHONE: (916) 341-776(IVE • DESIGN • SOLUTIONS B, SACRAMENTO, CA 95816 FAX: (916) 341-7767	REVETMENT REPLACEMENT PROJECT	SCALES FOR REDUC	CED PLOTS
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<u>SITE PHOTO 1</u>

McCLAREN DRIVE



BASS PROPERTY DRIVEWAY (PAVERS TO BE PROTECTED IN PLACE)

SITE PHOTO 3

REV.	DATE	BY	Снк.	APPR.	DESCRIPTION	REV.	DATE	BY	Снк.	APPR.	DESCRIPTION

EXISTING BASS PROPERTY BOAT RAMP TO BE USED FOR ALL CONSTRUCTION ACCESS

<u>SITE PHOTO 2</u>

BASS PROPERTY DRIVEWAY (PAVERS TO BE PROTECTED IN PLACE)

<u>SITE PHOTO 4</u>

60% DESIGN

-AMERICAN RIVER

AN & BASS PROPERTIES								
ENT REPLACEMENT PROJECT	SCALES FOR REDUCED PLOTS							
SITE ACCESS PHOTOS	DRAWING NO.	SHEET						
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DESIGNED BY: C. HILLIARD DRAWN BY:	PROFESSION			FRIEDM
J. KAUP CHECKED BY:	LECISION CONCEPTION	DEVELOPING • INNOVAT 3301 C STREET, BLDG. 100- PHONE: (916) 341-776	DDGERS IVE • DESIGN • SOLUTIONS -B, SACRAMENTO, CA 95816 0. EAX: (916) 341-7767	REVETME
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DATE: XX/XX/XXXX	P OF CALLFORM	SUBMITTED	APPROVED	

Item 6&7

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EXISTING REVETMENT SECTION SCALE: NTS

DESIGNED BY: FRIEDM C. HILLIARD DRAWN BY: DEVELOPING • INNOVATIVE • DESIGN • SOLUTIONS 3301 C STREET, BLDG. 100-B, SACRAMENTO, CA 95816 PHONE: (916) 341-7760 FAX: (916) 341-7767 J. KAUP REVETME CHECKED BY: . KORS IN CHARGE: C. HILLIARD DATE: XX/XX/XXXX SUBMITTED APPROVED

60% DESIGN

CONSTRUCTION NOTES:

- 1 EXISTING 6" GUNITE SECTION IS REINFORCED WITH REBAR THROUGHOUT. CONTRACTOR IS TO REMOVE & DISPOSE OF EXISTING GUNITE AND REINFORCING MATERIALS
- 2 THE TOP OF THE EXISTING CONCRETE BLOCK AND THE EXISTING GUNITE SLOPE TOE ARE ATTACHED BY ROD REINFORCEMENT. CONTRACTOR SHALL CUT REINFORCEMENT WHILE PROTECTING CONCRETE BLOCK IN PLACE
- (3) ALL UNDERMINED AREAS SHALL BE FILLED WITH ROCK
- 4 SURFACE AREA OF GUNITE TO BE REMOVED AND DISPOSED OF IS APPROXIMATELY <u>6,900 SF</u>

IAN & BASS PROPERTIES	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING, ADJI				
ENT REPLACEMENT PROJECT	SCALES FOR REDU				
YPICAL DETAILS (1 OF 2)	DRAWING NO.	SHEET			
	C-301	11			

Item 6&7

60% DESIGN

MAN & BASS PROPERTIES	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST			
ENT REPLACEMENT PROJECT	SCALES FOR REDUCED PLOTS			
YPICAL DETAILS (2 OF 2)	DRAWING NO. SHEET			

												DESIGNED BY: C. HILLIARD DRAWN BY:	PROFESSION			FRIEDM
												J. KAUP CHECKED BY:	REGISTER CHARTER BEAR	DEVELOPING • INNOVAT 3301 C STREET, BLDG. 100-	IVE • DESIGN • SOLUTIONS -B, SACRAMENTO, CA 95816	REVETM
												J. KORS IN CHARGE: C. HILLIARD	xp.0-30-21 ★	PHONE: (916) 341-776	0 FAX: (916) 341-7767	ALT
REV.	DATE	BY	Снк.	APPR. D	ESCRIPTION	REV.	DATE	BY	Снк.	APPR.	DESCRIPTION	DATE: XX/XX/XXXX	C OF CALIFORNIA	SUBMITTED	APPROVED	

