

**SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL**

**SACRAMENTO RIVER
FLOOD CONTROL PROJECT**

UNIT NO 115

**EAST LEVEE OF SACRAMENTO RIVER
FROM**

SUTTERVILLE ROAD TO

NORTH BOUNDARY OF RECL. DIST. NO. 744



**CORPS OF ENGINEERS
U. S. ARMY
SACRAMENTO, CALIFORNIA**

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U. S. ARMY

SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 115
EAST LEVEE OF SACRAMENTO RIVER
FROM
SUTTERVILLE ROAD TO
NORTH BOUNDARY OF RECLAMATION
DISTRICT NO. 744

Prepared by the Sacramento District
Corps of Engineers, U. S. Army
Sacramento, California
August 1955

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LOCATION	ADDITION OR REVISION	DATE
1-04 e.	Add contract No. DAW05-71-C-0021	Dec 1971
Exhibit B	Add drawing no. 50-4-4378	Dec 1971
Exhibit F	Add copy of letter of acceptance dated 17 Dec 1970	Dec 1971
1-04	Add subparagraph f.	Dec 1973
2-01	Add subparagraph c.	Dec 1973
2-04	Add subparagraph a(4)(a)	Dec 1973
Exhibit B	Add drawing no. 50-4-4772	Dec 1973
Exhibit F	Add copy of letter of transfer dated 17 Jul 1973	Dec 1973
1-04	Add subparagraph g.	Sep 1983
Exhibit B	Add drawing no. 50-4-5347	Sep 1983
Exhibit F	Add copy of letter of acceptance dated 5 Feb 1981	Sep 1983
1-04	Add subparagraph h.	Aug 1993
1-04	Add subparagraph i.	Aug 1993
2-04	Add subparagraph (5)	Aug 1993
Exhibit A-2	Add location map of observation wells	Aug 1993
Exhibit A-3	Add location map of observation wells	Aug 1993
Exhibit B	Add drawing no. 50-4-5826	Aug 1993
Exhibit B	Add drawing no. 50-4-5834	Aug 1993
Exhibit F	Add copy of letter of transfer dated 22 Feb 1993	Aug 1993
Exhibit F	Add copy of letter of transfer dated 30 Apr 1993	Aug 1993
Exhibit F	Add copy of letter of transfer dated 13 Dec 1951	21 Dec 2010
Exhibit F	Add copy of letter of transfer dated 31 Dec 1953	21 Dec 2010
1-04	Add subparagraph j	21 Dec 2010
Exhibit F	Add copy of letter of transfer dated 3 Feb 1987	21 Dec 2010
1-04	Add subparagraph k	21 Dec 2010
Exhibit F	Add copy of letter of transfer dated 23 Mar 1990	21 Dec 2010
1-04	Add subparagraph l	21 Dec 2010
Exhibit F	Add copy of letter of transfer dated 17 Dec 1993	21 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 27 Dec 1993	21 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Nov 1970	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 26 Jun 1973	2 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 27 Feb 1981	7 Mar 2011

LOCATION	ADDITION OR REVISION	DATE
1-04	Add subparagraph m	Jan 2012
Exhibit B	Add drawing no. 50-04-6118	Jan 2012
Exhibit H	Create Exhibit H: Local Cooperation Agreement	Jan 2012
1-02	Authorization paragraph. Add Flood Control Act 1960	Jan 2012
2-05	Create Environmental Protection section	Jan 2012
2-01. c.	Move 2-01. c. (Env. Values) to 2-05. a.	Jan 2012
2-05	Add subparagraph b, c, d, e, & f	Jan 2012
Table of Contents	Update Table of Contents	Jan 2012
Exhibit I	Create Exhibit I: Biological Opinion	Jan 2012
Exhibit I	Add B.O. excerpt USFWS #81420-2008-F-0805-1	Jan 2012
Exhibit F	Add copy of letter of transfer dated 22 Aug 2012	Sept 2012
Exhibit F	Add copy of letter of transfer dated 29 Nov 2016	29 Dec 2016

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SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER FLOOD CONTROL PROJECT
UNIT NO. 115

EAST LEVEE OF SACRAMENTO RIVER
FROM SUTTERVILLE ROAD T
NORTH BOUNDARY OF RECLAMATION DISTRICT NO. 744

SECTION I – INTRODUCTION

1-01. Location. – The improvement covered by this manual is Unit No. 115 of the Sacramento River Flood Control Project. The channel and levee of the unit lies along the left bank (east side) of the Sacramento River from the city of Sacramento (Sutterville Road) to the town of Freeport, a distance of about 11.6 miles (river mile 56.1 to 44.5). The improvement is located within Reclamation District No. 535, 673, and 824, in the County of Sacramento and in the general vicinity as shown on the location map, exhibit A-1.

1-02. Project Works. The Project works covered by this manual includes the east levee of the Sacramento River from Sutterville Road to the north boundary of Reclamation District No. 744 and was authorized by the Flood Control Act of 1917, as modified by The Acts of 1928, 1937, and 1941.

Bank protection work was authorized by the Flood Control Act of 1960.

1-03. Protection Provided. – The levee of the unit provides direct protection to the city of Sacramento, adjacent agricultural lands and the town of Freeport against high water in the Sacramento River. The grade of the adopted floodplain along this reach varies from 33.2 at Sutterville Road to elevation 28.7 at the north boundary of Reclamation District No. 744 (all elevations are referred to U.S. Corps of Engineers datum). The levee grade of the reach provides a freeboard of 3 feet or more above the floodplain profile. The project design capacity is 110,000 cubic feet per second.

1-04. Construction Data and Contractor. The levee of this unit was originally constructed by local interests, and some portions thereof had subsequently had emergency repair work thereon by the U.S. Corps of Engineers. The construction required to bring the levee to project standards was accomplished under the following contract or job orders:

a. Bank protection work and levee setback at Edwards Break, as shown on Drawing No. 6-4-1286-1 of Exhibit B, was accomplished by hired labor under Job Order No. 134 and completed in January 1937.

b. Rebuilding of levee slope at Edwards Break, as shown on Drawing No. 50-4-1735, was accomplished by hired labor under Job Order No. 576 and completed on 17 November 1939.

c. Enlargement of levee in the vicinity of Richfield Oil Co., as shown on Drawing No. 50-4-1830, was accomplished by hired labor under Job Order No. 643 and completed on 1 June 1941.

d. Levee construction and bank protection work along the left bank of the Sacramento River from Mile 45.3 to 56.0, as shown on Drawings No. 50-4-2907, 50-4-2908 and 50-4-2909, was accomplished under Contract No. DA-04-167-eng-910 by H. Earl Parker, Inc. during the period from 23 February 1953 to 31 December 1953.

e. Bank sloping and stone protection on the left bank of the Sacramento River at Site Mile 53.7 (a portion of Unit No. 19, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-71-C-0021 by James L. Ferry and Son during the period from 26 August 1970 to 20 December 1971. Specification No. 3427, Drawing No. 50-4-4378.

f. Selective clearing, bank sloping, stone protection, and recreation facilities, including boat launching ramp and vehicle parking, at Garcia Bend on the left bank of the Sacramento River at Site Mile 49.3 (a portion of Unit No. 21A, Sacramento River Bank Protection Project) were accomplished under Contract No. DACW05-73-C-0031 by James L. Ferry and Son during the period from 26 September 1972 to 7 July 1973. Specification No. 4235, Drawing No. 50-4-4772.

g. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Miles 51.2, 52.2 and 55.6 (a portion of Unit 33) was accomplished under Contract No. DACW05-77-C-0101 by Dutra Construction Company, Inc. Construction was completed on 12 October 1980, Specification No. 5269, Drawing No. 50-4-5347.

h. Construction of a slurry cutoff wall in the Maintenance Area 9 levee between approximately levee miles 0.51 and 2.51. Observation wells were placed at various location along the slurry cutoff wall (EXHIBIT A-2). This work was accomplished under Contract No. DACW05-90-C-0117, Specification No. 8848, Drawing No. 50-4-5826.

i. Construction of a slurry cutoff wall in the Maintenance Area 9 levee between approximately levee mile 2.51 and 2600 feet south of the Freeport Bridge. Observation wells were placed at various location along the slurry cutoff wall (EXHIBIT A-3). This work was accomplished under Contract No. DACW05-91-C-0114, Specification No. 8849, Drawing No. 50-4-5834.

j. Emergency repairs to a project levee along the left bank of the Sacramento River in Maintenance Area 9 was completed on 5 November 1986 under Contract No. DACW05-86-C-0112, Drawing No. 50-25-5771.

k. Construction of four 300 feet long and 25 feet deep seepage cutoff wall tests along the left bank of the Sacramento River, from Mile 48 to 49 was completed on 22 January 1990 under Contract No. DACW05-90-0019. Specification No. 8697, Drawing No. 50-10-5844.

l. Excavation, embankment construction, stone protection, clearing and grubbing, and erosion control revegetation at four sites on the left bank of the Sacramento River, downstream of the Garcia Bend Park, between River Miles 48 and 51 was completed on 7 December 1993 under Contract No. DACW05-92-C-0087. Specification No. 9219, Drawing No. 50-04-5862.

m. Embankment protection, stone protection, erosion control revegetation to control erosion along the left bank of the Sacramento River at River Miles 50.2 and 51.5. 1,473 linear feet were completed at RM 50.2 between coordinates 38.4899834°N, -121.5521715°W and 38.4865106°N, -121.5495311°W. 888 linear feet were completed at RM 51.5 between coordinates 38.5065798°N, -121.5557192°W and 38.5042325°N, -121.5565585°W. This work was completed by DD-M Crane & Rigging in November 2010 under Contract No. W91238-06-C-0101, Specification No. 1444, Drawing No. 50-04-6118.

1-05. Flood Flows. For purposes of this manual, the term “Flood” or “High water period” shall refer to flows when the water surface in the Sacramento River reaches, or exceeds the reading of 25.0 on the U.S. Weather Bureau recording stage at the “I” Street Bridge.

1-06. Assurances Provided by Local Interests. Assurance of cooperation by local interests is provided by State legislation, as contained in Chapter 3, Part 2, Division 5 of the State Water Code (see paragraph 2-02a of the Standard Manual).

1-07. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining the completed works was officially accepted by the Reclamation Board of the State of California on 2 January 1952 and 20 January 1954, as shown on the attached letters of acceptance, Exhibit F.

1-08. Superintendent. The name and address of the Superintendent appointed by local interests, to be responsible for the continuous inspection, operation, and maintenance of the project works shall be furnished the District Engineer, and in case of any change of Superintendent, the District Engineer shall be so notified.

SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levee.

- a. Description. The levee described in this manual is located along the east side of the Sacramento River and extends as indicated in paragraph 1-02 of this manual. As previously stated, it is a re-construction of work originally built by local interests. For more complete detail of items included in the re-construction of above mentioned levee, refer to the “As Constructed” drawings of Exhibit B.
- b. For pertinent Requirements of the Code of Federal Regulations and other requirements see the following:
 - (1) Maintenance – paragraph 4-02 of the Standard Manual.
 - (2) Check Lists – Exhibit E of the Supplement Manual.
 - (3) Operation – paragraph 4-04 of the Standard Manual.
 - (4) Special Instructions – paragraph 4-05 of the Standard Manual.

2-02. Drainage and Irrigation Structures.

- a. Description. Drainage and irrigation structures which extend through the levee as show on Drawing No. 50-4-2908, and 50-4-2909 of Exhibit B, are listed as follows:

Location (Station)	Diam. Steel Pipe	<u>STRUCTURES AFFECTING LEVEE MAINTENENACE</u>		Elev. of Pipe Invert at Highest Point
		Other Structure Description		
<u>Part "A"</u>				
24 / 14	12"	2-C.M. Cut-off walls, Pump & Motor R. S. 1" conduit thru levee		27.5
38 / 61	10"	2-C.M. Cut-off walls, Pump & Motor R. S. 1" conduit thru levee		25.0
48 / 43.9	14"	2-C.M. Cut-off walls, Pump & Platform R. S.		27.0
67 / 64	10"	1-C.M. Cut-off wall, Pump L. S. Gate Valve L. S.		21.0
91 / 54	12"	Pump L. S.		14.0
121 / 65	14"	2 Concrete Cut-off walls, Pump L. S.		20.3
134 / 19	10"	1-C. M. Cut-off wall, Pump R. S. 1"		30.1
145 / 83.1	10"	1-C. M. Cut-off wall, Pump R. S. Check valve R. S.		30.3
148 / 43.2	10"	2-Concrete Cut-off walls, Pump L. S. Check Valve R. S.		20.5
166 / 18.5	6"	2-Concrete Cut-off walls, Pump L. S. Check Valve R. S.		21.5
174 / 79	8"	1-C.M. Cut-off wall, Pump and Check Valve R. S.		30.5
190 / 70	8"	1-C.M. Cut-off wall, Pump and Check Valve R. S.		30.7
204 / 51.7	12"	2-Concrete Cut-off walls, Pump L. S.		20.6
209 / 28.5	8"	1-C.M. Cut-off wall, Pump and Check Valve R. S.		30.8
233 / 76.5	6"	2-Concrete Cut-off walls, Pump L. S. Check Valve R. S.		21.0

Location (Station)	Diam. Steel Pipe	<u>STRUCTURES AFFECTING LEVEE MAINTENANCE</u>		Elev. of Pipe Invert at Highest Point
		Other Structure Description		
<u>Part "A"</u>				
240 / 84.5	6"	2-Concrete Cut-off walls, Pump L. S., Check Valve R. S.		20.5
246 / 33.2	8"	1-C.M. Cut-off wall, pump and Check Valve R. S.		31.1
248 / 58	30"	R. D. No. 673 Drainage 2-Concrete Cut-off walls, Flap gate R. S., gate Valve L. S.		20.0
249 / 00	24"	1-C.M. Cut-off wall, 8" Siphon Breaker R. S., Flap Gate R. S.		31.1
253 / 08	8"	1-C.M. Cut-off wall, Pump R. S., 1" conduit. Check Valve R. S.		31.2
258 / 13	8"	2-Concrete Cut-off walls, Pump L. S., Check Valve R. S.		20.8
272 / 50	8"	1-C.M. Cut-off wall, Pump and Check Valve R. S.		31.3
279 / 89.3	8"	1-C.M. Cut-off wall, Pump and Check Valve R. S.		31.4
283 / 89.8	10"	Pump R. S.		30.0
297 / 75.8	8"	2-Concrete Cut-off, walls, Pump and Gate Valve R. S.		26.7
310 / 60.2	6"	1-C.M. Cut-off wall, Pump R. S.		31.6
320 / 50	8"	1-C.M. Cut-off wall, Pump, R. S.		31.2
341 / 24.4	10"	2-Concrete Cut-off walls, Pump R. S., Check Valve R. S.		24.5
373 / 14	4"	1-C.M. Cut-off wall, Pump R. S., Pipe Capped L. S.		32.2
384 / 88.5	8"	1-C.M. Cut-off wall		32.2

Location (Station)	Diam. Steel Pipe	STRUCTURES AFFECTING LEVEE MAINTENANCE		Elev. of Pipe Invert at Highest Point
		Other Structure Description		
<u>Part "A"</u>				
388 / 50	8"	1-C.M. Cut-off wall, Pump R. S.		32.2
392 / 75	8"	2-Concrete Cut-off walls, Pump L. S.		23.0
424 / 35	6"	2-Concrete Cut-off walls, Pump L. S.		21.0
426 / 72.8	12"	2-Concrete Cut-off walls, Pump L. S.		22.5
<u>Part "B"</u>				
180 / 30	4"	4-Pipes - Richfield Oil Station		39.0
197 / 65	10"	Check Valve R. S.		32.7
218 / 40	14"	Pump, L. S.		33.0
222 / 60	2"	Elect. Conduit to U.S.C.G. Navig. Light		36.0
224 / 50	3/4"	Domestic Water Supply, Valve L. S.		38.0
226 / 50	3/4"	Domestic Water Supply, Valve L. S.		38.0
275 / 40	30"	County Sewer Outfall, Air Valve R. S.		29.5
290 / 90	78"	Reinf. Concrete Pipe - City Sewer Outfall, Slide Gate & Flap Gate R. S.		4.0
303 / 75	8"	Pump R. S.		38.0
Abbreviations are as follows:				

R. S. - Riverside

2-03. Channel.

a. Description. The main channel of the Sacramento River for this unit lies adjacent to the levee as described in paragraph 1-02. The project design capacity of the channel is as listed in paragraph 1-03 of this manual.

The maintenance and operation of the channel of the Sacramento River, within this unit, shall be limited to flood control and the requirements which follow shall be observed only to that extent.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements see the following:

- (1) Maintenance - paragraph 6-02 of the Standard Manual.
- (2) Check Lists - Exhibit E of this Supplement Manual.
- (3) Operation - paragraph 6-04 of the Standard Manual.
- (4) Safety Requirements - paragraph 6-05 of the Standard Manual.

It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood in excess of a reading of 25.0 on the U. S. Weather Bureau recording gage at the "I" Street Bridge, as indicated in paragraph 1-05 of this manual. The Superintendent shall cause readings to be taken at the gage, or at a more convenient temporary staff gage, at intervals of two to four hours during the period when the water surface is above flood-flow stage and record the time of the observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-06 of the Standard Manual.

2-04. Miscellaneous Facilities.

a. Description. Miscellaneous structures or facilities which were constructed as a part of, or in conjunction with, the protective works, and which might affect their functioning, include the following:

(1) Bridge.

- (a) A highway bridge (barcule) crossing the Sacramento River near Freeport at about station 51 + 55 as shown on drawings of Exhibit B.

(2) Utilities.

- (a) A county outfall sewer at station 275 + 40 as shown on drawings of Exhibit B.

- (b) A city outfall sewer located at station 290 + 90 as shown on drawings of Exhibit B.

(3) Hydrographic Facilities. There are no hydrographic facilities located within this unit - the U. S. Weather Bureau recording gage located on the left bank of the Sacramento River at the foot of "I" Street being upstream from this unit.

All miscellaneous facilities listed above are maintained by other Government agencies.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements see the following:

- (1) Maintenance - paragraph 7-02 of the Standard Manual.
- (2) Check Lists - paragraph 7-03 of the Standard Manual.
- (3) Operation - paragraph 7-04 of the Standard Manual.

a.(4) Recreation Facilities.

- (a) A boat launching ramp and access ramp at River Mile 49.3 as shown on drawings of Exhibit B.

SECTION II

2-04. Miscellaneous Facilities. (Continuation)

a. (5) Slurry Cutoff Wall and Observation Wells:

- (a) All observation well readings shall be referenced from the top of the PVC riser pipe.
- (b) Observation well readings should be collected monthly for at least a one year period and plotted along with the river stage. After the first year of data collection, readings should only be collected during high river stage.
- (c) * High water monitoring of the observation wells should begin when the river stage at the "I" Street gage is forecasted to reach an elevation of 25 feet and should continue until the river stage recedes below elevation 25 as conditions permit. Observations should be made as reasonably close to 12-hour intervals as possible.
- (d) If any of the following conditions are noted, they should be reported immediately to the Chief, Emergency Management Division, and the Chief, Geotechnical Branch, U.S. Army Corps of Engineers, Sacramento District, 1325 J Street, Sacramento, CA 95814.
 - (1) Visual signs of levee distress, such as cracking, sloughing, settlement, etc.
 - (2) Seepage emerging at or above the landside levee toe.
 - (3) Saturation and/or development of boils near the landside toe.
 - (4) Sudden or rapid rise of water level in the landside observation wells (i.e., ≥ 6 inches in 12 hours)
- (e) The data should be tabulated and furnished in report form annually before 1 September of each year to the Chief, Geotechnical Branch, U.S. Army Corps of Engineers, Sacramento District, 1325 J Street, Sacramento, CA 95814.
- (f) The General Manager, Reclamation Board, shall be responsible for performing or having performed evaluation of the adequacy of the cutoff wall performance to include comparison with expected or previous years cutoff wall performance. This analysis will be included in the annual data report and will include a statement of the adequacy of cutoff wall performance and any recommendations, such as placement of additional observation wells.
- (g) Maintenance of the observation wells shall include determining individual sediment levels annually, by measuring from the top of the PVC riser pipe to the sediment in the slotted interval. Ensure that the well is capped between readings and the cap is vented with a 1/8-inch diameter air hole. No fluids such as antifreeze or preparations designed to lubricate the inside of the riser pipe shall be introduced into any observation well. These types of fluids can damage the water tight joints, promote clogging of the slotted interval, and introduce contaminants into the groundwater. Any well observed with signs of tampering or vandalism should be measured for depth and checked for obstructions.

2-05. Environmental Protection.

a. Trees preserved on the berm above the bank protection at Site Mile 49.3 during prosecution of contract listed in paragraph 1-04f shall not be removed as part of normal maintenance as long as they remain healthy.

The following and USFWS B.O. #81420-2008-F-0805-1 within Exhibit I pertain to the repair sites at Sacramento River RM 50.2L, 51.5L,

b. Trees, either preserved or planted, shall not be removed as long as they remain healthy. As unhealthy trees are removed or fall over, any subsequent cavities in the rock must be filled in a timely manner with rock material equal to the surrounding repair. Leave the fallen trees in place. Dead or fallen trees will be retained except where they are a hazard to existing flood control work.

c. In-stream Woody Material (IWM) has been used in conjunction with levee improvements at these locations. IWM is expected to degrade and wash away over time, therefore, it is not a requirement of normal maintenance to replace this material. IWM should not be removed from the site through maintenance activities. Additionally, any woody debris that arrives at the site and is deposited shall be left in place/not removed by the Local Sponsor, provided it is not posing a hazard to the existing flood control work.

d. Vegetation within mitigation areas shall be left in a natural state. No additional maintenance such as irrigation or mowing shall be required as a part of normal maintenance.

e. Soil placed on/in rock as a part of the original repair and all associated vegetation (grasses & woody shrubs/trees) within the footprint of the bank protection sites at these locations do not require replacement as a part of normal maintenance. In other words, if the soil is washed out it does not need to be replaced and re-vegetated. However, in areas where soil remains or new sediment is deposited and the vegetation is dislodged/ destroyed or leaves areas greater than 3' x 3' of exposed soil for more than 30 days during the months of April through November, those areas shall be hydro-seeded using the seed mix indicated on the As-Built.

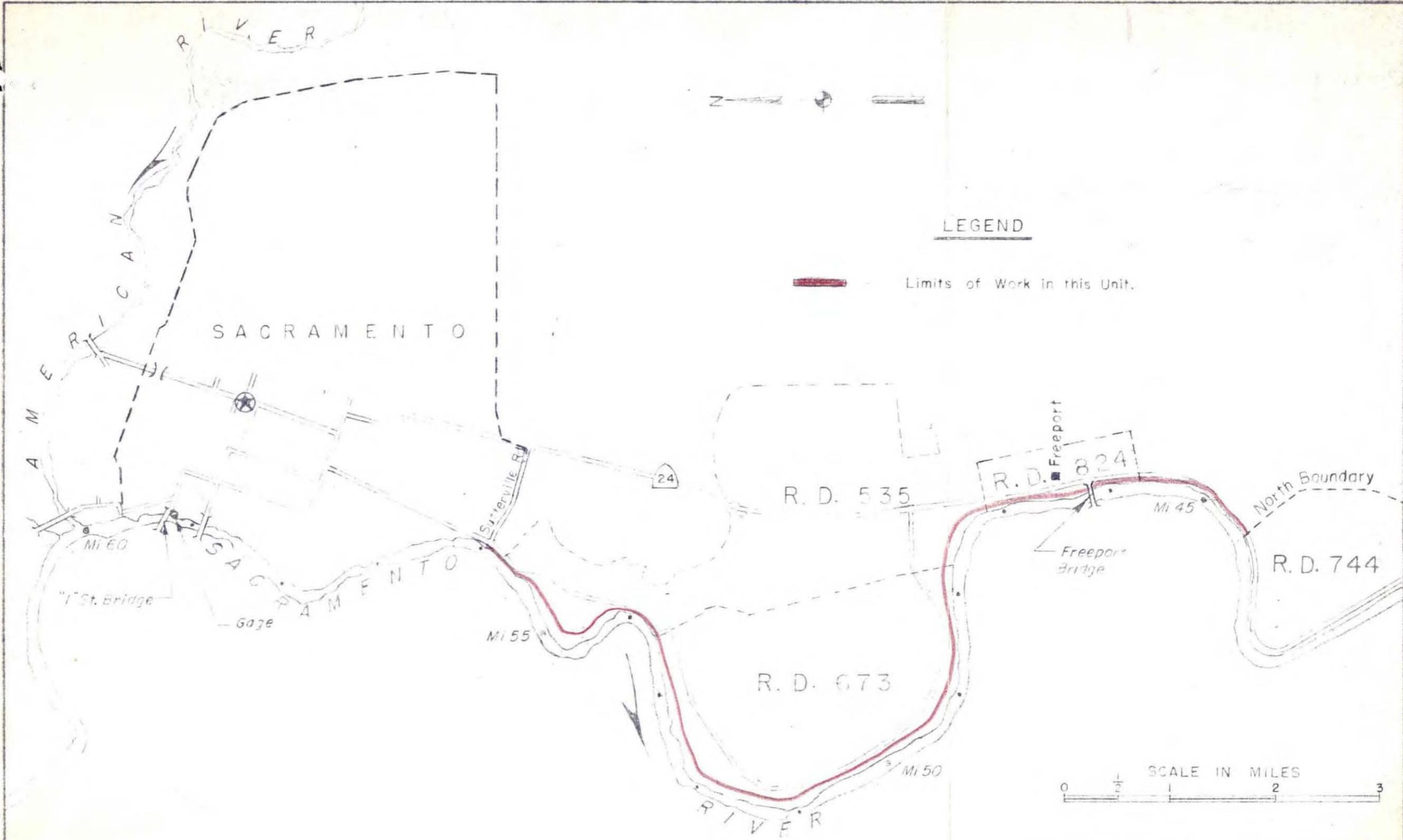
f. Vegetation, soil, and IWM placed on the erosion repair site were done so as on-site mitigation for the construction of the site. Vegetation (trees and shrubs) helps protect against soil erosion and provides shade cover for endangered salmonid species migrating up and down the river during various times of the year. Living and dead IWM provides diverse habitat and refuge for several fish species during low flow conditions. These features shall not be removed or damaged in any way.

SECTION III - REPAIR OF DAMAGE TO PROJECT WORKS AND
METHODS OF COMBATING FLOOD CONDITIONS

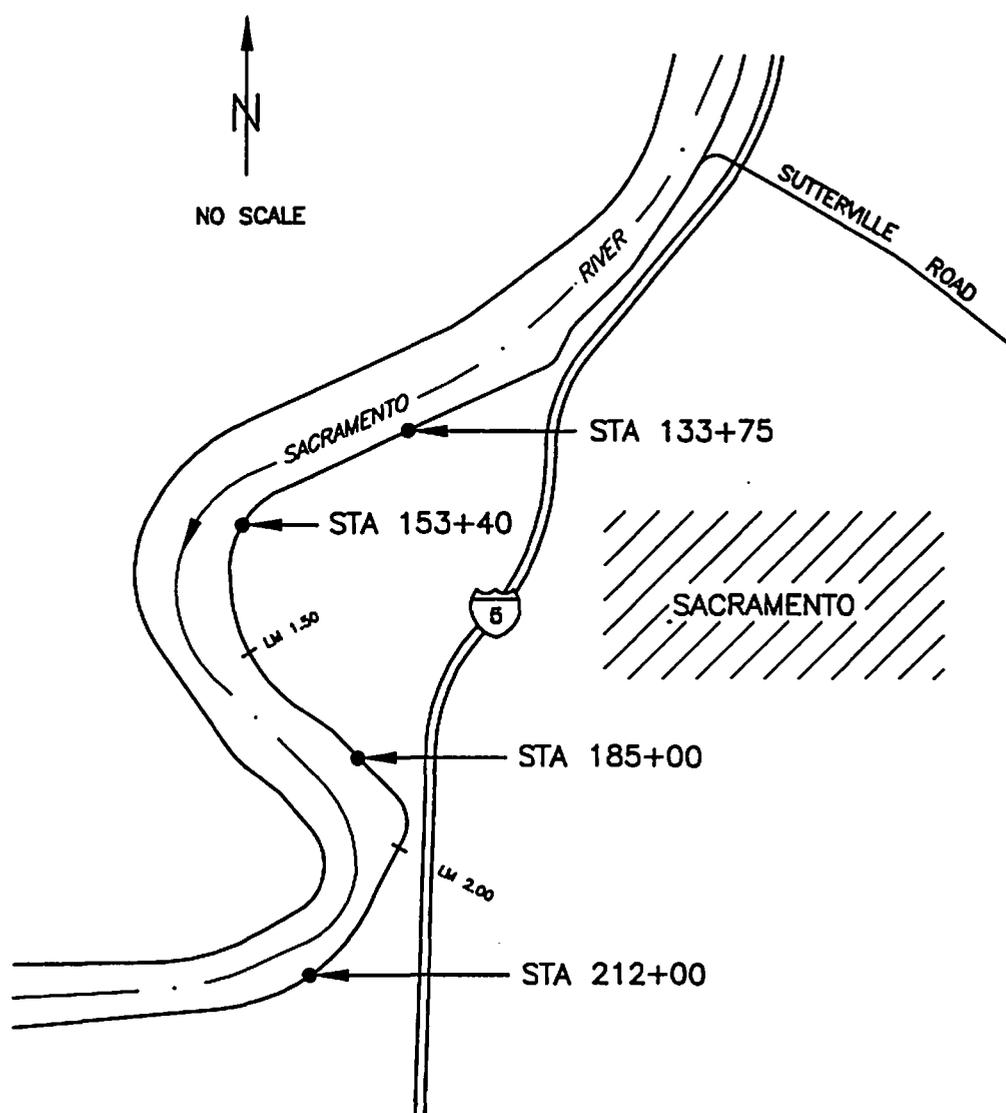
3-01. Repair of Damage. - In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Division of Water Resources, State of California, who coordinates maintenance of project works of the Sacramento River Flood Control Project. The State representative will give assistance or advice, or will determine appropriate action to be taken.

3-02. Applicable Methods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Revised Standard Manual, where the subject is fully covered.

EXHIBIT A
FLOOD CONTROL REGULATIONS
(See Standard Manual)



LOCATION MAP
 UNIT NO. 115
 EAST LEVEE OF SACRAMENTO RIVER
 FROM SUTTERVILLE ROAD TO
 NORTH BOUNDARY OF R.D. NO. 744



LEGEND

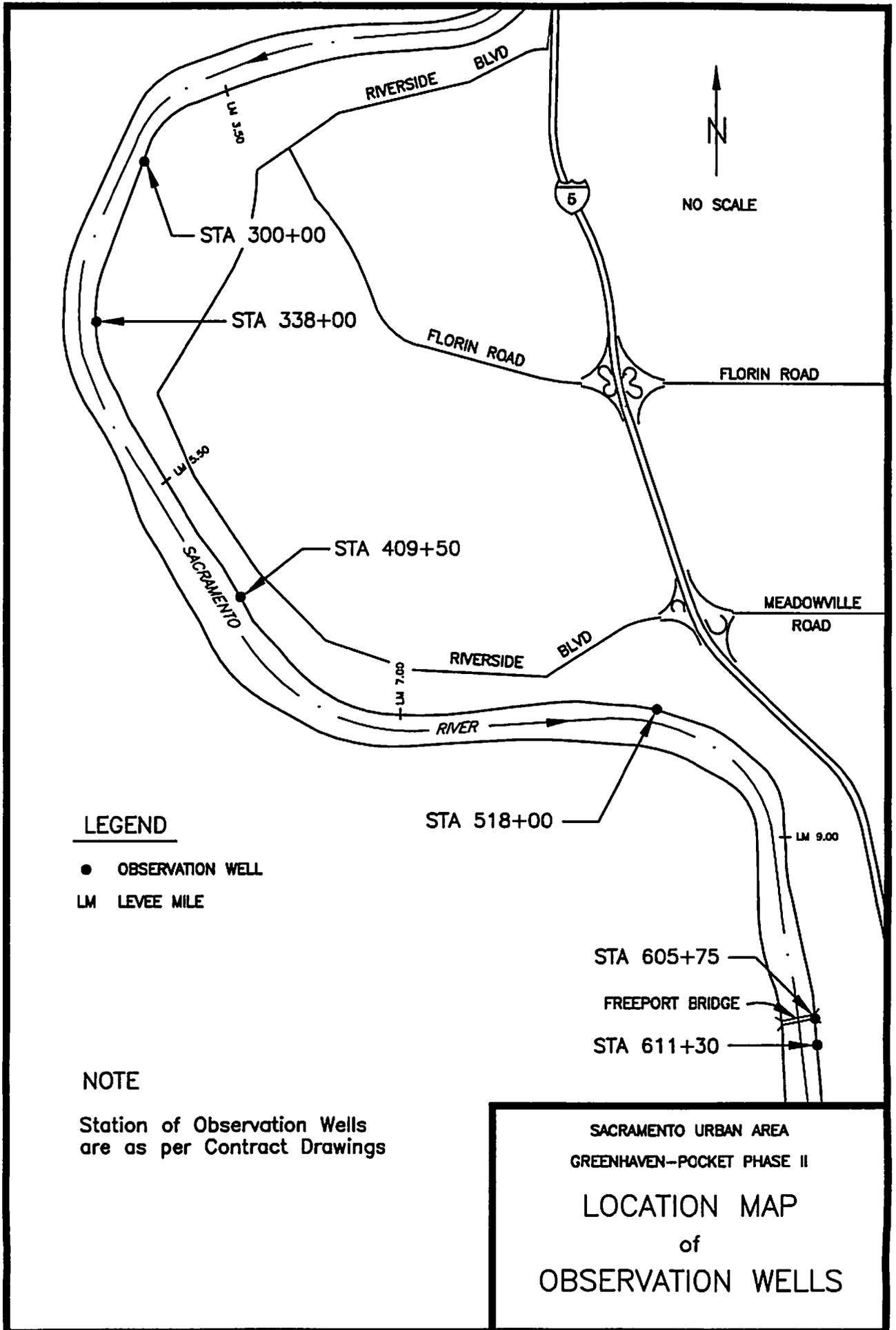
- OBSERVATION WELL
- LM LEVEE MILE

NOTE

Station of Observation Wells
are as per Contract Drawings

SACRAMENTO URBAN AREA
GREENHAVEN-POCKET PHASE I

LOCATION MAP
of
OBSERVATION WELLS



LEGEND

- OBSERVATION WELL
- LM LEVEE MILE

NOTE

Station of Observation Wells are as per Contract Drawings

SACRAMENTO URBAN AREA
 GREENHAVEN-POCKET PHASE II
LOCATION MAP
 of
OBSERVATION WELLS

EXHIBIT B

"AS CONSTRUCTED"
DRAWINGS

(See Separate Folder for the following Drawings)

<u>File No.</u>	<u>Title</u>
6-4-1286-1	Bank Protection and Levee Setback at Edward's Break, Mile 55.3E. 1 Sheet
50-4-1735	Levee Construction at Edward's Break, Mile 55.11. 1 Sheet
50-4-1830	Levee Enlargement - Vicinity of Richfield Oil Company. 1 Sheet.
50-4-2907 ✓	Surfacing of Levee Crown - Left Levee Sacramento River, Mile 45.3 to Mile 56.0. 1 Sheet
50-4-2908 ✓	Levee Construction & Bank Protection, Left Bank Levee, Sacramento River, Mile 45.3 to Mile 53.5. Sheets 1 to 11, incl.
50-4-2909 ✓	Surface Levee Crown for Patrol Road Purposes East Levee Sacramento River, Mile 53.5 to Mile 56.0. Sheets 1 and 2.
Additional drawings of cross-sections, structures, and miscellaneous facilities are available in the office of the District Engineer.	
50-4-4378	Bank Protection, Various Locations, Left Bank, Sacramento River between mile 24.7 and 53.7, in 23 sheets
50-4-4772	Bank Protection, Left Bank, Sacramento River at Mile 49.3, in 5 sheets
50-4-5347	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 15.0 to 60.0, in 33 sheets.
50-4-5826	Sacramento Urban Area Levee Reconstruction Project, Greenhaven-Pocket Phase I in 18 sheets
50-4-5834	Sacramento Urban Area Levee Reconstruction Project, Greenhaven-Pocket Phase II in 59 sheets
50-04-6118	Sacramento River Bank Protection Project, Phase II Sacramento River Erosion Control Sites 50.2L, 51.5L in 24 sheets

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(See Standard Manual)

EXHIBIT D
CHECK LIST NO. 1
LEVEE INSPECTION REPORT
(See Standard Manual)

EXHIBIT E
CHECK LISTS OF LEVEES,
CHANNEL AND STRUCTURES

For definition of "flood" or "high water
period," see paragraph 1-05 of this manual

CHECK LIST NO. 2

UNIT NO. 115

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

Item	Remarks
(a) Location by Station	
(b) Settlement, sloughing, or loss of grade	
(c) Erosion of both slopes of levee	
(d) Condition of roadways, including ramps	
(e) Evidence of seepage	
(f) Condition of farm gates and fencing	
(g) Maintenance measures taken since last inspection	
(h) Comments	

INSTRUCTIONS FOR COMPLETEING SHEET 2, EXHIBIT E
(To be printed on back of sheet 2)

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face or back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate any evidence of seepage through the embankment section.
- Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.
- Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.
- Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

CHECK LIST NO. 3

CHANNEL AND RIGHT-OF-WAY

UNIT NO. 115

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

Item	Remarks
(a) Name of channel and location by stations	
(b) Vegetal growth in channel	
(c) Debris and refuse in channel	
(d) New construction within right-of-way	
(e) Extent of aggradation or degradation	
(f) Condition of riprapped section	
(g) Condition of bridges	
(h) Measures taken since last inspection	
(i) Comments	

INSTRUCTIONS FOR COMPLETING SHEET 4, EXHIBIT E
(To be printed on back of sheet 4)

- Item (a) Indicate station of observation obtained by pacing from nearest reference point.
- Item (b) Note nature, extent, and size of vegetal growth within the limits of flood flow channel.
- Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, or the bridges over the channel.
- Item (d) Report any construction along the channel or above the channel that has come to the attention of the inspector and that might affect the functioning of the project.
- Item (e) Indicate any change in grade or alignment of the channels, either by deposition of sediment or scour, that is noticeable by visual inspection. Estimate amount and extent.
- Item (f) Indicate any change that has taken place in the riprap such as disintegration of the rock, erosion, or movement of the rock. Note the presence of vegetal growth through the riprap.
- Item (g) Note any damage or settlement of the footings of the bridges. Indicate condition of wooden structures and if repainting is required. Indicate condition of bridge approaches, headwalls, and other appurtenances.
- Item (h) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.
- Item (i) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 115

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

(a) Location by Station	(b) Bank	(c) Debris or other ob- struction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right- of-way adjacent to structure	(g) Repair measures taken since last inspection	(h) Comments
Part "A" 24/14 38/61 48/43.9 67/64 91/54 121/65 134/19 145/83.1 148/43.2 166/18.5 174/79 190/70 204/51.7	Left Left Left Left Left Left Left Left Left Left Left Left Left						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 115

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

(g) Location by Station	(a) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair measures taken since last inspection	(h) Comments
Part "A"							
209/28.5	Left						
233/76.5	Left						
240/84.5	Left						
246/33.2	Left						
248/58	Left						
249/00	Left						
253/08	Left						
258/13	Left						
272/50	Left						
279/89.3	Left						
283/89.8	Left						
297/75.8	Left						
310/60.2	Left						
320/50	Left						
341/24.4	Left						
373/14	Left						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 115

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

(a) Location by Station	(b) Bank	(c) Debris or other ob- struction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of- way adjacent to structure	(g) Repair measures taken since last inspection	(h) Comments
<u>Part "A"</u> 384/88.5 388/50 392/75 424/35 426/72.8	Left Left Left Left Left						
<u>Part "B"</u> 180/30 197/65 218/40 222/60 224/50 226/50 275/40 290/90 303/75	Left Left Left Left Left Left Left Left Left						

INSTRUCTIONS FOR COMPLETING SHEET 6, 7 & 8, EXHIBIT E
(To be printed on back of Sheet 6, 7 & 8)

- (1) Enter station of all structures under Column (a) for check list.
- (2) Inspect inlet, barrel, and outlet for accumulation of sediment, rubbish, and vegetal matter. Note condition under Column (c).
- (3) If any settlement or damage to the pipe, barrel, or invert of the drain has occurred, estimate the location and amount. Note particularly if any backfill has come into the pipe or been disturbed. Record observations under Column (d).
- (4) Inspect the concrete portions of the structures for evidence of settlement, cracks, "pop-outs", spalls, abrasive wear, or other deterioration. Record conditions under Column (e).
- (5) Inspect backfill area adjacent to structure for evidence of erosion caused by overflow of the drainage structure and note conditions in Column (f).
- (6) Under Column (g) indicate physical measures that have been taken to correct conditions reported in last inspection, and their condition at time of this inspection.
- (7) Under Column (h) record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.
- (8) A copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and a record copy shall be attached to the Superintendent's semi-annual report.

EXHIBIT F

LETTERS OF ACCEPTANCE
BY STATE RECLAMATION BOARD



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO CA 95814-2922

NOV 29 2016

Ms. Leslie M. Gallagher
Executive Officer
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, CA 95821

Dear Ms. Gallagher:

The purpose of this letter is to notify the Central Valley Flood Protection Board of the completion of an effort to update the Operation and Maintenance Manual Supplements for the Sacramento River Flood Control Project and the Lower San Joaquin River Levees and Lower San Joaquin River and Tributaries Project. These updates are a compilation of revisions made to the project over time and where we had record of a transfer letter to the Board. These updated supplements are the most current version and should be utilized as the baseline version for any future project modifications.

This process and the compiled updates have been coordinated with the Central Valley Flood Protection Board and Department of Water Resources staffs for review and comment. All comments have been addressed or incorporated into the manuals.

The Board staff has been provided a copy of the manuals in electronic format. Future updates will include entire unit supplements so updates can be seen in context with the entire unit supplement. The list of completed supplements, by the unit number and title, are attached. If you have any questions regarding this transmittal, please contact Gary Kamei at 916-557-6845.

Sincerely,

A handwritten signature in black ink, appearing to read "D. G. Ray", written over a horizontal line.

David G. Ray, P.E.
Colonel, U.S. Army
District Commander

Enclosures

Standard O&M Manual Sacramento River Flood Control Project	
Unit No.	Project Name
101	RD 341 Sherman Island
102	E. Levee of Sac River, Isleton to Threemile Slough & N. Levee of Threemile Slough from Sac River to SJ River
103	Both Levees of Georgiana Slough & E. Levee of Sac River from Walnut Grove to Isleton
104	Levees around Grand Island
105	Levees Around Reyer Island
106	S. Levee Lindsey Slough & W. Levee of Yolo BP from Lindsey Slough to Watson Hollow and N. Levee of Watson Hollow Drain
107	Levees Around Hastings Tract
108	Levees Around Peters Tract
109	West Levee of Yolo Bypass & E. Levee of Cache Slough
110	Levees Around Sutter Island
111	E. Levee of Sac River from Freeport to Walnut Grove
112	Levees Around Merritt Island
113	E. Levee Yolo Bypass, N. Levee Miner Slough, W. Levees Sutter Slough, Elkhorn Slough & Sac River, All Bordering RD 999
114	W. Levee of Sac River from Northern Boundary of RD 765 to Southern Boundary of RD 307
115	E. Levee of Sac River from Sutterville Rd to Northern Boundary of RD 744
116	W. Levee of Sac River from Sac Weir to Mi 51.2 & S. Levee of Sac Bypass & E. Levee of Yolo Bypass from Sac Bypass to Southern Boundary of RD 900
117	E. Levee Sac River through City of Sac from Tower Bridge to Sutterville Rd
118.1	E. Levee of Sac River from American River to Tower Bridge & S. Levee of American River from Mayhews Downstream to Sac River
118.2	N. Levee American River, E. Levee Natomas Canal, Both Levees Arcade Creek, S. Levee Linda Creek, & Magpie Creek Diversion Channel
118.2 Sup	Vegetation on Mitigation Sites E. Levee of Sac River from American River to Tower Bridge & S. Levee of American River from Mayhews Downstream to Sac River
119	Putah Creek Channel & Levees & W. Levee of Yolo Bypass from Yolo Causeway Downstream 3 mi. Includes O&M manual for the Yolo Basin wetlands, and South Fork Putah Creek Preserve Restoration Section 1135 Authorization.
120	Relocated Willow Slough Channel & Levees & W. Levee Yolo Bypass from mouth of Relocated Willow Slough to Yolo Causeway
121	R. Levee of Yolo Bypass from Willow Slough Bypass to Woodland Rd RD2035
122.1	W. Levee of Sac River from Mi 70.8 to Sac Weir & N. Levee of Sac Bypass & E. Levee of Yolo Bypass from Woodland Hwy to Sac Bypass
123	W. Levee of Sac River from East End of Fremont Weir to Mi 70.8 & E. Levee of Yolo Bypass from East End Fremont Weir to Woodland Hwy RD 1600

124	N. Levee of American River from Natomas E. Canal to Sac River & E. Levee of Sac River from Natomas Cross Canal to American River. Includes supplement, Vegetation on Mitigation Sites.
125	Back Levee of RD 1000
126	Cache Creek Levees & Settling Basin Yolo Bypass to High Ground
127	Knights Landing Ridge Cut & Sac River & Yolo BP Levees of RD's 730 and 819 & S. Levee of Sycamore Slough
128	E. Levee of Sac River from Sutter Bypass to Tisdale Weir all within RD 1500
129	S. Levee of Tisdale By-Pass from E. Levee Sac River to W. Levee Sutter BP & W. Levee of Sutter BP Downstream to E. Levee of Sac River
130	W. Levee Sac River from Sycamore Slough to Wilkins Slough (Mi. 89.9 to Mi. 117.8)
131	W. Levee Sac River from Wilkins Slough to Colusa (Mi. 117.8 to Mi. 143.5)
132	Back Levees of RD 108
133	E. Levee of Sac River from Winship School to Tisdale BP & N. Levee of Tisdale BP & W. Levee of Sutter BP from Long Bridge to Tisdale BP
134	Levees of RD 70, E. Levee of Sac River from Butte Slough Outfall Gates to Winship School & W. Levee of Sutter BP from Butte Slough Outfall Gates to Long Bridge
135	E. Levee of Sutter BP from Sutter Buttes Southerly to Junction with Feather River & E. & W. Levees of Wadsworth Canal & Levee of Intercepting Canals
136	E. Levee of Sac River from Butte Slough Outfall Gates to the Princeton-Afton Rd (Mi. 138.3 to Mi. 164.4)
137	W. Levee of Sac River from North End of Princeton Warehouse to Colusa Bridge
138	E. Levee of Sac River from Parrott-Grant Line to Princeton-Afton Rd
139	W. Levee of Sac River from N. Boundary of LD 2 to North End of Princeton Warehouse
140	W. Levee of Sac River in LD 1 (Mi. 170.5 to Mi. 184.7). Includes mitigation site O&M manual, Yuba County
141.1	E. Levee of Feather River from Bear River to Natomas CC & S. Levee of Bear River & Both Levees of Yankee Slough. Parts 1 and 2
141.2	E. Levee of Feather River from Bear River to Natomas CC & S. Levee of Bear River & Both Levees of Yankee Slough. Parts 1 and 2
142	Back Levee of RD 1001
143	W. Levee of Feather River from North Boundary of RD 823 to E. Levee of Sutter Bypass
144	W. Levee of Feather River from North Boundary of LD 1 to North Boundary of RD 823
145	E. Levee of Feather River, S. Levee of Yuba River, Both Levees of WPRR Intercepting Channel, W. Levee of South Dry Creek & N. Levee of Bear River
146	N. Levee of Bear River & S. Levee of South Dry Creek RD 817 & Vicinity of Wheatland
147	Levee Around the City of Marysville & N. Levee of Yuba River to a Point 1.8 Mi. Upstream from Marysville

148	W. Levee of Feather River from North Boundary of RD 777 to North Boundary of LD 1
149	S. Levee of Yuba River Maintenance Area No. 8
151	E. Levee Feather River from Honcut Creek to Marysville & S. Levee of Honcut Creek & E. Levee of RD 10
152	W. Levee of Feather River from N. Boundary of RD 777 to Western Canal Intake (Levee of Drainage District No. 1)
153	Lower Butte Creek Channel Improvement, Colusa, Glenn & Butte Counties
154	Moulton Weir & Training Levee Sacramento River
155	Colusa Weir & Training Levee Sacramento River
156	Tisdale Weir & Bypass
157	Fremont Weir, Sacramento River
158	Sacramento Weir, Sacramento River
159	Pumping Plants No. 1, 2 & 3, Sutter Bypass
160	Sutter Butte Canal Headgate
161	Butte Slough Outfall Gates
162	Knights Landing Outfall Gates, Sacramento River

Standard O&M Manual San Joaquin River

Unit No.	Project Name
1	Right Bank Levee of the San Joaquin River & French Camp Slough within RD 404
2	Right Bank Levee of the San Joaquin River & French Camp Slough within RD 17
3	North Levee of Stanislaus River & East Levee of the San Joaquin River within RD 2064, 2075, 2094 and 2096
4	East Levee of San Joaquin River within RD 2031
5	East Levee of the San Joaquin River Within RD No. 2092
6	East Levee of the San Joaquin River in RD Nos. 2063 & 2091
7	West Levee of San Joaquin River & North Levee of Old River RD Nos. 524 & 544
8	Right Banks of Old River & Salmon Slough Within RD No. 1 & RD No. 2089
9	Levees Around RD No. 2062 & San Joaquin County Flood Control District Area No.2
10	West Levee of Paradise Cut RD No. 2058 & SJ County Flood Control District, Area No.2
11	West Levee of San Joaquin River from Durham Bridge to Paradise Dam Within RD No. 2085 & 2095
12	West Levee of San Joaquin River From Opposite Mouth of Tuolumne River Downstream to Stanislaus County Line Within RD Nos. 2099, 2100, 2101, & 2102
13	West Levee of the San Joaquin River in RD No. 1602

C
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Y

THE RECLAMATION BOARD
of the
State of California

May 22, 1952

District Engineer
Sacramento District
Corps of Engineers, U.S. Army
P. O. Box 1739
Sacramento 8, California

Dear Sir:

Reference is made to your letter (1) SPKKO-P 824.3 (Sacramento River F.C.P.) 13 December 1951, (2) your letter SPKKO-P 824.3 (Sacramento River F. C. P.) 19 December 1951, and (3) your letter SPKKA 824.3 (Sacramento River F. C. P.) 13 December 1951, transferring 101 reaches of levee and contiguous banks to the Reclamation Board for flood control operation and maintenance.

On January 2, 1952, the Reclamation Board accepted the transfer of the reaches of levee listed in first tabulation attached and did not accept those reaches of levee and contiguous bank in the second tabulation.

Yours very truly
THE RECLAMATION BOARD

By /s/ A.M. Barton

A.M. BARTON
Chief, Engineer and General Manager

Encl.

EXHIBIT F
Sheet 1 of 4

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The Board accepted the transfer from the Corps of Engineers, in letters as listed below, the following reaches of levees and their contiguous waterway banks, where applicable, for flood control operation and maintenance, as complete and meeting the requirements of the Sacramento River Flood Control Project:

<u>Date of Letter</u>	<u>Levee Location</u>	<u>Remarks</u>
* * * *	* * * * *	* * *
13 Dec 1951	d (44) East Levee Sacramento River Mile 44.5 to 45.3	Constructed by Assesement No. 5
* * * *	* * * * *	* * *

NOTE: Only item pertaining to operation and Maintenance Manual No. 115 is included in above copy.

EXHIBIT F

Sheet 2 of 4

C
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Y

THE RECLAMATION BOARD
of the
State of California

District Engineer
Sacramento District
U. S. Corps of Engineers
P. O. Box 1739
Sacramento, California

Dear Sir:

Reference is made to your file SPKKO-P (Sacramento River F.C.P.) under date of 31 Dec 1953, relating to transfer of levee on left bank of Sacramento River from River Mile No. 45.3 to 56.1.

The Reclamation Board at their meeting on January 20, 1954, accepted the river levee and contiguous waterway banks on the left or east bank of the Sacramento River as completed under Specification No. 1704 and Contract No. DA-04-167-eng-910 except for the following contiguous waterway banks in those portions where the waterway bank was not made stable:

1. Set back-River Mile 48.35 to 48.8
2. Set back-River Mile 49.48 to 49.65
3. Set back-River Mile 49.78 to 50.35
4. Set back-River Mile 51.2 to 51.5
5. Set back-River Mile 51.75 to 52.0

The foregoing five locations are where bank conditions required levee set back to provide a stable levee. Waterway banks at these locations have not been proven to be stable. The contract did not include work on these banks. At Locations Nos. 4 and 5 above set back is a location of wing dams with accompanying navigation dolphins. Bank caving occurred at Location No. 4 during progress of the construction requiring acquisition of additional right of way at State expense beyond the plans submitted. Some bank protection was placed at the actual bank cave-in. It was noted on January 19, 1954, during the current vise of the river, that drift was collecting on the dolphins and that the banks were actively working due to deflection of current toward these banks.

The Board, at its meeting on January 20, 1954, also adopted a

EXHIBIT F

Sheet 3 of 4

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Y

policy not to accept the contiguous banks where unstable conditions exist and the banks are not the proper height.

Yours very truly
THE RECLAMATION BOARD

A.M. BARTON
Chief Engineer and General Manager

By /s/ Donald D. Lemmon

DONALD D. LEMMON
Assistant Secretary

EXHIBIT F

Sheet 4 of 4

THE RECLAMATION BOARD

1416 Ninth Street, Room 455-6
Sacramento, CA 95814-5594
(916) 653-5434 FAX: (916) 653-5805



DEC 27 1993

Colonel John N. Reese
District Engineer
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Dear Colonel Reese:

This is in reference to the Sacramento Urban Area Levee Reconstruction Project.

At its December 20, 1993 meeting, The Reclamation Board acknowledged completion of the reconstruction work of this public safety project. The completed work consists of the construction of approximately 10 miles of seepage cutoff wall within the east levee of the Sacramento River between Miller Park and Morrison Creek, 6 miles of levee berm and drain along the landside slope of the west levee of the Sacramento River in Reclamation District 900, 6 miles of seepage cutoff wall, and 12 miles of levee berm and drain along the landside slope of the east levee of the Sacramento River in Reclamation District 1000, as well as miscellaneous utility relocations and appurtenant work. In addition, the reconstruction work included removal and restoration of four levee sections along the east levee of the Sacramento River in the Greenhaven/Pocket area. Staff from the Corps and the Board inspected the completed work on December 3, 1993.

Attached are copies of letters to the local maintaining agencies notifying them of contract work completion in their area and of their responsibility to continue to operate and maintain their respective areas in accordance with the local cost-sharing agreement between the Board and agencies dated May 10, 1990, and in accordance with Title 33, Code of Federal Regulations, Part 208 - Flood Control Regulations.

The Board understands that modification of the installed berm section along the east levee of the Sacramento River in Reclamation District 1000 to improve drainage and to improve access for maintenance requirements is scheduled to be completed next year in a follow-up contract for the Cache Creek Settling Basin Enlargement Project. Staff will coordinate activities between the Board, the Corps, and RD 1000 to complete the design, cost estimate, and agreements for this work.

Units 115, 124

Colonel John N. Reese
DEC 27 1993
Page Two

For further information, please contact me at above address or have your staff contact Ricardo Pineda at (916) 327-1596 or Victor Pacheco at (916) 327-1532.

Sincerely,



f: Raymond E. Barsch
General Manager

Attachments

cc: Mr. John P. Saia
Programs and Project Management
Division
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Mr. Larry Johnson
Planning Division
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Was - S 115, 12/1/93

December 17, 1993

Navigation and Flood Control Unit

The Reclamation Board
State of California
1416-9th Street, Room 455-6
Sacramento, California 95814

mod

Members of the Board:

You are hereby notified that the Corps of Engineers has completed the repair of levee erosion at four different sites on the left bank of the Sacramento River. The location of this work is just downstream of the Garcia Bend Park between approximate River Miles 48 and 51. The repair work consisted of minor clearing and grubbing, excavation, embankment construction, placement of stone protection, and erosion control revegetation of the slopes.

The work was completed on December 7, 1993, in accordance with Contract Number DACW05-92-C-0087, Specification Number 9219, and Drawing Number 50-04-5862. This work is a follow up repair work that was needed following the completion of the Greenhaven-Pocket Phase II Contract, completed on March 30, 1993, and transferred to your Board with a letter dated April 30, 1993.

The repaired portion of the levee will continue to be maintained in accordance with the Local Cooperation Agreement between the Department of the Army and the State of California dated June 14, 1990. This work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 115 and 117, Sacramento River Flood Control Project.

Sincerely,

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge)
2. Restricted Delivery (Extra charge)

3. Article Addressed to:
The Reclamation Board
State of California
1416-9th Street, Room 455-6
Sacramento, California 95814

4. Article Number
792133

Type of Service:
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X *Faullene Amers*

7. Date of Delivery
DEC 27 1993

8. Addressee's Address (ONLY if requested and fee paid)

[Handwritten signatures]
TAVANA/ms
of Engineers
KELLY
WINTON F
3201 S Street,
ey, 1416 Ninth
DENNIS
JOHNSON
CHILD S
SALA
stuffs
REESE
LU/T0067

8115117

April 30, 1993

Navigation and Flood Control Unit

The Reclamation Board
State of California
1416-9th Street, Room 455-6
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed the Greenhaven-Pocket Phase II work on the Sacramento River left bank levee under authority of the Flood Control Act of 1917 as amended and modified. The work consisted of the construction of approximately ten miles of seepage cutoff slurry wall in the City of Sacramento levee between approximately levee mile 2.1 and Sutterville Road and the Maintenance Area 9 levee between Sutterville Road and approximately 2600 feet south of the Freeport Bridge.

The work was completed on March 30, 1993, in accordance with Contract Number DACW05-91-C-0114, Specification Number 8849, and Drawing Number 50-4-5834.

The levee will continue to be maintained in accordance with the Local Cooperation Agreement between the Department of the Army and the State of California dated June 14, 1990. The new work will be added by amendment to the Operation and Maintenance Manuals, Supplement Number 115 and 117, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

TAVANA/ms

Sincerely,

KELLY

Laurence R. Sadoff
Colonel, Corps of Engineers
District Engineer

HELM

Copies Furnished:

WINTON

Department of Water Resources, ATTN: G. Snow, 3201 S Street,
Sacramento, California 95816-7017

DENNIS

Department of Water Resources, ATTN: G. Qualley, 1416 Ninth
Street, Sacramento, California 95814

CDR, SPD, ATTN: CESPDCO-O

SAIA

CDR, USACE, ATTN: DAEN-CECW-OM

cc:

KASPRISIN

>Central Valley Sec

PM (Childs)

Prog Dev

F&A Br

Valley Res Ofc

SADOFF

LU/T0042.LT

EXHIBIT F

February 22, 1993

Navigation and Flood Control Unit

The Reclamation Board
State of California
1416-9th Street, Room 455-6
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed the Greenhaven-Pocket Phase I work on the Sacramento River left bank levee under authority of the Flood Control Act of 1917 as amended and modified. The work consisted of the construction of approximately two miles of seepage cutoff wall in the Maintenance Area 9 levee between approximately levee miles 0.51 and 2.51.

The work was completed on December 15, 1992, in accordance with Contract Number DACW05-90-C-0117, Specification Number 8848, and Drawing Number 50-4-5826.

The levee will continue to be maintained in accordance with the Local Cooperation Agreement between the Department of the Army and the State of California dated June 14, 1990. The new work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 115, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

KELLY/ms

Laurence R. Sadoff
Colonel, Corps of Engineers
District Engineer

HELM

WINTON

Copies Furnished:

Department of Water Resources, ATTN: G. Snow, 3201 S Street, DENNIS
Sacramento, California 95816-7017

Department of Water Resources, ATTN: G. Qualley, 1416 Ninth
Street, Sacramento, California 95814

CHILDS

CDR, SPD, ATTN: CESPDCO-O
CDR, USACE, ATTN: DAEN-CECW-OM

SAIA

cc:
Central Valley Sec
PM (Childs)
Prog Dev
F&A Br
Valley Res Ofc

SADOFF

LU/K0068

1A

*Cost
file*

March 23, 1990

Navigation and Flood Control Unit

The Reclamation Board
State of California
1416 - 9th Street, Room 455-6
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed seepage cutoff wall test sites in the Sacramento River left bank levee under authority of the Flood Control Act of 1917 as amended and modified. The work consisted of construction of four separate seepage cutoff wall tests, with each cut off wall test approximately 300 feet long and 25 feet deep between River Miles 48 to 49.

The work was completed on January 22, 1990, in accordance with Contract Number DACW05-90-C-0019, Specification Number 8697 and Drawing Number 50-10-5844.

The levee shall continue to be maintained in accordance with the assurances which your Board provided for the Sacramento River Flood Control Project. This portion of the work will be added by A. SMITH amendment to the Operation and Maintenance Manual, Supplement Number 115, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

cc:
C-O Div
Fld Cntrl Unit
Central Valley Sec
Prog Dev
F&A Br
Valley Res Ofc

Jack A. Le Cuyer
Colonel, Corps of Engineers
District Engineer

Copies Furnished:

DWR, ATTN: G. Snow
DWR, ATTN: G. Qualley
CDR, SPD, ATTN: CESPCK-CO-O
CDR, USACE, ATTN: DAEN-CECW-OM

(1145)

W3-23
ROMPALA *jj*

RCK
KELLY

AS
SMITH

H
HELM

FAST

H
DENNIS

MC
NOLAN *EW*

MASON *W*

LE CUYER *W*

PC#SACRIVER *W*

not

Unit 115



"60"



February 3, 1987

Navigation and Flood Control Unit

The Reclamation Board
State of California
1416 - 9th Street, Room 455-6
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to a project levee under authority of Section 5 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 5, 1986, and consisted of restoring portions of the Sacramento River left bank levee in Maintenance Area 9, in accordance with Contract Number DACW03-86-C-0112 and Drawing Number 30-25-5771. This work shall be maintained in accordance with the assurance which your board provided for the Sacramento River Flood Control Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 111 and 115, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Jul 2-3
RMPALA/th

Mc for
KELLY

(Signature)
A. SMITH

(Signature)
HELM

(Signature)
FAST

(Signature)
DENNIS

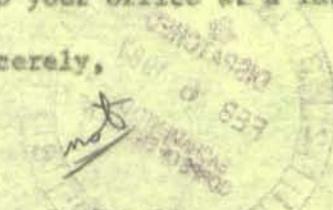
(Signature)
MCC

(Signature)
SCHOLL

WANG #6375a

cc:
E.M. (Garrett)
Ops Br
Engr Div (Civ Des Sec D - Pahl)
Valley Res Ofc (Cameron)

Sincerely,



Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

Copies Furnished:

DWR, ATTN: J. ANGLE
DWR, ATTN: G. SNOW
Commander, South Pacific Division, ATTN: SPDCO-0

Units 111, 115

(Signature)

**DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD**

1416 - 9th Street, Room 335-18
Sacramento, CA 95814
(916) 445-9454



FEB 27 1981

Colonel Paul L. Kavanaugh
District Engineer
Sacramento District
U. S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814

Dear Sir:

The Reclamation Board at its regular meeting of February 20, 1981 formally accepted the completed flood control work from the District Engineer, for Operation and Maintenance. This work is a portion of Unit No. 33 of the Sacramento River Bank Protection Project, and was transferred to the State of California by your letters of January 19, and February 5, 1981.

The flood control work was constructed in a workmanlike manner and in conformance with File No. 50-4-5347, Specification No. 5269, and Contract No. DACW05-77-C-0101, insofar as could be determined visually, at Sites Miles 36.7, 51.2, 52.2, 55.6 and 56.6 Left Bank, and 56.9 Right Bank, Sacramento River.

Sincerely,


ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 111, 115



*Copies to
Eng'rs of Valley*

EXHIBIT F
Sheet 1 of 1



C
O
P
Y

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
650 CAPITOL MALL
SACRAMENTO, CALIFORNIA 95814

C
O
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Y

REPLY TO
ATTENTION OF SPKCO-0

5 February 1981

The Reclamation Board
State of California
1416 - 9th Street, Room 335
Sacramento, CA 95814

Gentlemen:

This is in regard to the joint inspection of 5 February 1981 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 33), to the State of California for operation and maintenance. The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 36.7, 51.2, 52.2, and 55.6. The sites described in the inclosure were completed on 5 February 1981 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269 and Drawing No. 50-4-5347.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304 (a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of 5 February 1981 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 111 and 115, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

1 Incl
1. Summary Sac Rv Bk
Prot Proj Unit 33

HENRY LEE
Lieutenant Colonel, CE
Acting District Engineer

Copy furnished:
DWR, ATTN: G. Piazza
DWR, ATTN: D. Meixner

EXHIBIT F

Summary of Sacramento River
Bank Protection Project
Portion of Unit 33
Sacramento River
Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
36.7	4+35 to 6+35	200
51.2	17+70 to 23+20	550
52.2	16+00 to 22+75	675
55.6	65+65 to 68+85	320

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
O
P
Y

Jul 17, 1973

District Engineer
Sacramento District
U.S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814

Refer to: 4130.60.109A

Dear Sir:

Reference is made to your letter of June 26, 1973, concerning the transfer to the State of California, for operation and maintenance, a portion of the Sacramento River Bank Protection Project, Unit No. 21-A.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, the construction of the Garcia Bend Recreation Facilities, and such miscellaneous work as necessary to complete the construction at Site Mile 49.3 Left Bank, Sacramento River.

The work has been completed and was constructed in a workmanlike manner. This work has been constructed in accordance with Drawing No. 50-4-4772, Specification No. 4235, and Contract No. DACW05-73-C-0031, insofar as could be determined visually.

The Reclamation Board at its regular meeting of July 16, 1973, formally accepted from the District Engineer for operation and maintenance, the completed flood control work on the above referenced site.

Sincerely yours,

/s/ A. E. McCollam
A. E. McCOLLAM
Chief Engineer and
General Manager

EXHIBIT F
Sheet 1 of 1

Rmb Clark file

SPKCO-O

26 June 1973

The Reclamation Board
State of California
1416 - 9th Street, Room 1335
Sacramento, California 95814

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 21A), to the State of California for operation and maintenance. This portion of flood control work consists of placement of approximately 775' of stone protection on the Sacramento River left bank at Site Mile 49.3, and the Garcia Bend Recreation Facility, which includes selective clearing, boat launching ramp and vehicle parking.

The work was completed on 26 June 1973 in accordance with Specification No. 4235, Contract No. DACW05-73-C-0031, Drawing No. 50-4-4772.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 26 June 1973 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 115, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

JAMES C. DONOVAN
Colonel, CE
District Engineer

UNW 9/15

[Signature]
ROMPALA/kg
Redac

[Signature]
COLEMAN

[Signature]
HENSON

[Signature]
MCKINSEY
~~CE~~
POTAMOS

Copy furnished:

~~DWR~~, ATTN: John Wright & Carl King

~~OCE~~

~~SPD~~

DONOVAN
[Signature]

RETURN RECEIPT REQUESTED

CERTIFIED MAIL

C
O
P
Y

THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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P
Y

Dec 17, 1970

File No. 4130.60.108
Your Contract 71-C-0021

District Engineer
U. S. Army Corps of Engineers
650 Capitol Mall
Sacramento, California 95814

Dear Sir:

Reference is made to your letter of November 20, 1970, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project (Unit No. 19) for maintenance and operation. The transferred sites were as follows:

Sacramento River, Mile 53.7, Left Bank

This work was constructed in conformance with specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4378 and the work to be done on Sacramento River, Left Bank.

The Reclamation Board at its meeting of December 3, 1970, formally accepted the above-referred to work for operation and maintenance.

Sincerely yours,

/s/ A. E. McCollam
A. E. McCOLLAM
Chief Engineer and General Manager

EXHIBIT F

20 November 1970

The Reclamation Board
 State of California
 1416 - 9th Street, Room 1335
 Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection of 18 November 1970, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #19), to the State of California for operation and maintenance. The flood control work consisted of approximately 1200 feet of levee enlargement and placement of about 2000 feet of stone bank protection on the Sacramento River left bank at Site Mile **53.7**. Selective clearing, compatible with adopted levee maintenance standards, was performed on the levee slopes. The work was completed on 18 November 1970 in accordance with Specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4378.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 18 November 1970 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 115, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

W
 WAIT/pnp

M
 COLEMAN

H
 HENSON

JAMES H. HIGMAN
 Lieutenant Colonel, CE
 Acting District Engineer

H
 HART

JWH
 HIGMAN

Copy furnished:
 DWR, ATTN: John Wright
 OCE
 SPD

cc: Engr Div-LevChan; Engr Div-ProgDev; Valley; F&A(Cordano)

Unit 115
alicia H
 TO JACK O 23 NOV 70

SPKKO-P 824.3 (Sac. Riv. F.C.P.)

*Prepared
29 Dec. 1953*

*Mailed
31 Dec. 1953*

The Reclamation Board
State of California
1100 "O" Street
Sacramento, California

Gentlemen:

Reference is made to District Engineer's letter dated 22 October 1953, suggesting a joint inspection of two sections of levee, pertaining to the Sacramento River Flood Control Project, for the purpose of transferring them to the jurisdiction of the State of California for operation and maintenance. Reference is also made to joint inspection made of these two sections of levee on 4 December 1953.

The levee sections referred to above have been completed recently in accordance with Specifications No. 1704 and drawings No. 50-4-2907, 50-4-2908, and 50-4-2909, under Contract No. DA-04-167-eng-910. They are located along the left bank of the Sacramento River between Mile 45.3 and 56.1, form an integral part of the Sacramento River Flood Control Project, and meet with the requirements of the project. Therefore, said levee sections together with the waterway banks contiguous thereto are hereby transferred to the State of California for operation and maintenance. The location of these sections of levee is further described as follows:

<u>Location</u>	<u>Description</u>	<u>River Mile</u>
1.	Left Bank-Sacramento River	From 45.3 to 55.4
2.	Left Bank-Sacramento River	From 55.5 to 56.1

*Unit No. 376
Unit No. 377*

In this connection your attention is invited to the fact that the section of levee from Mile 55.4 to 55.5, joining these two sections, was transferred to the State of California on 13 December 1951, therefore action by the Board, at this time, should include the acceptance of the levee in this reach of the river continuously from Mile 45.3 to 56.1 to cover all three sections.

Note: See Bardale "Resume of Reclamation Board Meeting" dated 20 January 1954, under Paragraph 11.

Units 15 + 117

*Posted
Letter No. 49*

376 and 377

12/29/53 DeArrieta

SPKKO-P 824.3 (Sac. Riv. F.C.P.)
The Reclamation Board

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under Paragraph 208.10 (10) of these regulations, a maintenance manual covering these sections of levee is in process of preparation and will be furnished to you upon completion.

A copy of this letter is being transmitted to the State Engineer.

1 Incl

- 1. Flood Control Regulations

Copy Furnished:

State Engineer
Dept. of Public Works
1120 N Street
Sacramento, California

- cc: O.C.E. w/o incl
- So. Pac. Div. w/o incl
- Engr. Div. w/o incl
- Sacto. Proj. Ofc. w/o/ incl
- C. DeArriata (2)

376 and 377

C. de ARRIETA

REGISTERED MAIL
Return Receipt
Requested

Letter No. 13

①

⑬

13 DEC 1951

SPEKA 824.5(Sac. Riv. F.C.P.)

Accepted by the Recl. Board:

- Completed by Contract by C. of E.
- D Const. by Local Interests 203-248-250-255
- U No maint. is required. 202

The Reclamation Board
State of California
1100 "G" Street
Sacramento 14, California

Not Accepted

○ No capable of separate maint.

Gentlemen:

Reference is made to your letter of 2 July 1951 acknowledging that certain reaches of the levees of the Sacramento River Flood Control Project and the waterway bank contiguous to said levee reaches meet the requirements of the project as authorized prior to the Flood Control Act of 1944.

The levee reaches in question are located as follows:

a. Sherman Island levee of Three Mile Slough.

- 199 (1) State Highway Bridge to Sacramento River. ○ 101
- 200 (2) From the State Highway Bridge, 1300 feet toward the San Joaquin River. ○ 101
- 201 (3) From a point 3900 feet toward the San Joaquin River from the State Highway Bridge to a point 6900 feet toward the San Joaquin River from the State Highway Bridge. 101
- 202 (4) From a point 10,500 feet toward the San Joaquin River from the State Highway Bridge to the San Joaquin River. 101

203 b. Plug across Seven Mile Slough near Three Mile Slough. D 102

204 c. Sherman Island Levee of Seven Mile Slough and Three Mile Slough from the Plug across Seven Mile Slough southwesterly to Sacramento River. U 102

Items 199 to 295

⑬

SPRKA 624,3 (Sac. Riv. F.C.P.)
The Reclamation Board

d. Easterly levee of the Sacramento River.

Reach
19

2. X

Reach
19

- 205 (1) From a point 23,650 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 21,950 feet downstream from Three Mile Slough. 101
- 206 (2) From a point 14,850 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 7,700 feet downstream from Three Mile Slough. 101
- 207 (3) From a point 6,300 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 3,450 feet downstream from Three Mile Slough. 101
- 208 (4) From a point 3,500 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 700 feet downstream from Three Mile Slough. 101
- 209 (5) From a point 800 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to Three Mile Slough. 101
- 210 (6) Three Mile Slough to Mile 10.58. 102
- 211 (7) Mile 10.71 to Mile 13.1. 102
- 212 (8) Mile 13.59 to Mile 14.5 (Junction Point). 102
- 213 (9) Mile 14.5 (Junction Point) to Mile 15.0. 102
- 214 (10) Mile 15.1 to Mile 16.9. 102
- 215 (11) Mile 16.95 to Mile 17.5. Brannan 102
- 216 (12) Mile 17.6 to Mile 18.0. Andrus 103
- 217 (13) Mile 18.15 to Mile 18.5. 103
- 218 (14) Mile 18.5 to Mile 21.5. v o " 103
- 219 (15) Mile 21.6 to Mile 26.3. v o " 103
- 220 (16) Mile 26.4 to Georgiana Slough. v o 103
- 221 (17) Mile 26.5 to Mile 27.55. v o III
- 222 (18) Mile 27.7 to Mile 28.5. III

SPRKA 624.3 (Sac. Riv. F.C.P.)
The Reclamation Board

d. Easterly levees of the Sacramento River. (cont'd)

- ✓ 223 (19) Mile 28.6 to Mile 28.9.
- ✓ 224 (20) Mile 29.1 to Mile 29.9.
- ✓ 225 (21) Mile 30.25 to Mile 30.55.
- ✓ 226 (22) Mile 30.75 to Mile 31.5.
- ✓ 227 (23) Mile 31.8 to Mile 32.2.
- ✓ 228 (24) Mile 32.4 to Mile 33.0.
- ✓ 229 (25) Mile 33.1 to Mile 34.45.
- ✓ 230 (26) Mile 34.55 to Mile 34.95.
- ✓ 231 (27) Mile 35.1 to Mile 35.58.
- ✓ 232 (28) Mile 35.58 to Mile 35.74. ✓
- ✓ 233 (29) Mile 35.85 to Mile 36.55.
- ✓ 234 (30) Mile 36.5 to Mile 36.75.
- ✓ 235 (31) Mile 36.85 to Mile 37.15.
- ✓ 236 (32) Mile 37.5 to Mile 37.85.
- ✓ 237 (33) Mile 38.0 to Mile 38.3.
- ✓ 238 (34) Mile 38.5 to Mile 39.15.
- ✓ 239 (35) Mile 39.75 to Mile 39.9.
- ✓ 240 (36) Mile 40.0 to Mile 40.15.
- ✓ 241 (37) Mile 40.25 to Mile 40.35.
- ✓ 242 (38) Mile 40.5 to Mile 40.8.
- ✓ 243 (39) Mile 41.2 to Mile 41.6.
- ✓ 244 (40) Mile 41.75 to Mile 42.35.
- ✓ 245 (41) Mile 42.5 to Mile 43.05.

Page 17

111

SPRKA 824.3 (Sac. Riv. F. C. P.)
The Reclamation Board

d. Easterly levees of the Sacramento River. (cont'd)

Reach 17

- ✓ (246) (42) Mile 43.3 to Mile 43.55. } III
- ✓ (247) (43) Mile 43.55 to Mile 44.2. } III
- ✓ (248) (44) Mile 44.5 to Mile 45.3. x D 115
- ✓ (249) (45) Mile 55.4 to Mile 55.5. 115
- ✓ (250) (46) Mile 55.1 to American River. x D 118.1
- (251) (47) West levee of Sutter Bypass to Mile 87.5. 115
- (252) (48) Mile 91.4 to Mile 92.1.
- (253) (49) Mile 92.6 to Mile 92.7.
- (254) (50) Mile 92.9 to Mile 94.0. ✓ 0
- (255) (51) Mile 96.6 to Mile 97.4.
- (256) (52) Mile 97.5 to Mile 97.7. ✓ 0
- (257) (53) Mile 97.7 to Mile 97.8.
- (258) (54) Mile 98.9 to Mile 102.5. ✓ 0
- (259) (55) Mile 103.45 to Mile 103.7.
- (260) (56) Mile 103.8 to Mile 104.2.
- (261) (57) Mile 104.2 to Mile 104.7. ✓ 0
- (262) (58) Mile 104.7 to Mile 105.65.
- (263) (59) Mile 110.9 to Mile 111.5. ✓ 0
- (264) (60) Mile 118.4 to Mile 118.5 (South End Tisdale Weir).
- (265) (61) At Tisdale Weir. ✓ 0 150

Reach 14

129

(266) e. Northerly levees of Miner Slough from a point 1,200 feet easterly from the easterly levees of Yolo Bypass to a point 4,400 feet easterly from the easterly levees of Yolo Bypass.

SPKHA 324.3 (Sac. Riv. F.O.P.)
The Reclamation Board

Letter No. 13

13

f. Westerly levee of Sutter Slough.

113

Ranch 36

- ✓ (267) (1) Mile 26.3 to Mile 26.7.
- ✓ (268) (2) Mile 27.05 to Mile 27.2.
- ✓ (269) (3) Mile 27.3 to Elkhorn Slough.

g. Westerly levee of Elkhorn Slough.

113

- ✓ (270) (1) Sutter Slough to Station "A" 431+00.
- ✓ (271) (2) Station "A" 429+50 to Station "A" 405+00.
- ✓ (272) (3) Station "A" 403+50 to Station "A" 344+75.
- ✓ (273) (4) Station "A" 340+75 to Station "A" 325+00.
- ✓ (274) (5) Station "A" 70+00 to Station "A" 60+50.

h. Westerly levee of the Sacramento River.

131

Ranch 3

- ✓ (275) (1) Mile 119.2 to Mile 119.7.
- ✓ (276) (2) Mile 131.4 to Mile 131.6.
- ✓ (277) (3) Mile 133.1 to Mile 133.3. ✓ ○
- ✓ (278) (4) Mile 134.0 (Meridian Bridge) to Mile 134.3.
- ✓ (279) (5) Mile 134.3 to Mile 140.6. ✓ ○
- ✓ (280) (6) Mile 140.6 to Mile 141.3.
- ✓ (281) (7) Mile 141.3 to Mile 142.0. ✓ ○
- ✓ (282) (8) Mile 142.0 to Mile 142.3.
- ✓ (283) (9) Mile 142.3 to Mile 142.7 (Union Oil Co. Wharf). ✓ ○

✓ (284) 1. Easterly levee of Georgiana Slough from the S.P.R.R. stream 22,500 feet. ✓ ○ 103

28

✓ (285) j. Northerly levee of the American River and the back levee of Reclamation District No. 1000 from Jibboom Street Bridge to El Camino Avenue. x D

125

13

SPEKA 524.3 (Sac. Riv. F.C.P.)
The Reclamation Board

k. Northerly levee of Natomas Cut.

48 ✓ (286) (1) From Sacramento River easterly to a point 1,550 feet easterly from the Garden Highway Bridge. 142

✓ (287) (2) From a point 2,550 feet easterly from the Garden Highway Bridge to a point 3,250 feet easterly from the Garden Highway Bridge. 142

Risch No. 20

✓ (288) l. Back levee of Reclamation District No. 2068 along the S.H.R.R. from the County Road northeasterly 7,200 feet to high ground. 109

✓ (289) m. Southerly levee of North Dry Creek near Wheatland from high ground to the W.P.R.R. Interceptor. 145

✓ (290) n. Easterly levee of the W. P. R. R. Interceptor from North Dry Creek southerly to Bear River. 145

✓ (291) o. Northerly levee of Bear River from the W. P. R. R. Interceptor easterly to South Dry Creek. 145

✓ (292) p. Northerly levee of South Dry Creek near Wheatland from Bear River easterly to high ground, including the Singh saddle closure levee. 145

✓ (293) q. Southerly levee of Bear River from the W.P.R.R. easterly to a point 5,400 feet easterly from Carlin Bridge. 141.1

✓ (294) r. Southerly levee of South Dry Creek near Wheatland from Bear River easterly 1.86 miles. 144

✓ (295) s. Northerly levee of Bear River from South Dry Creek easterly to a point 4,000 feet easterly from Carlin Bridge. 144

The records of this office show that your Board has accepted the levees and/or works covered by Items d.(14), d.(15), d.(16), d.(29), d.(50), d.(52), d.(54), d.(57), d.(59), d.(61), h.(3), h.(5), h.(7), h.(9), i., n., o., c., p., q., r., and s., above, as complete. Accordingly the waterway bank contiguous to said items is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items a. to c., inclusive, d.(1) to d.(13), inclusive, d.(17), to d.(27), inclusive, d.(29), to d.(49), inclusive, d.(51), d.(53), d.(55), d.(56), d.(58), d.(60), e., f., g., h.(1), h.(2), h.(4), h.(6), h.(8) and j. to l., inclusive, above, although complete has not been formally transferred as contemplated by the Project documents.

Letter No. 13 (13)

SPRFA 624,3(Sac.Riv.F.C.P.)
The Reclamation Board

Accordingly the levee covered by said items, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented. As provided under paragraph 208.10(10) of these regulations, a maintenance manual covering these works is in process of preparation and will be furnished your Board upon completion.

A copy of this letter is being transmitted to the State Engineer.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy Furnished:
Office, Chief of Engrs.
So. Pac. Div. Engr.
State Engineer
Engr. Div. (2)
C. de Arrieta

H. R. Reifsnnyder
Lt. Colonel, Corps of Engineers
Executive Officer

THE RECLAMATION BOARD

16 Ninth Street, Room 455-6
Sacramento, CA 95814-5594
(916) 653-5434 FAX: (916) 653-5805



FFR 1 5 1994

Colonel John N. Reese
District Engineer
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Dear Colonel Reese:

This is in reference to additions to the supplements of the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project for Units 115, 117, and 124. These additions address the reconstruction work completed as part of the Sacramento Urban Area Levee Reconstruction Project.

The Reclamation Board requests the additions to the Standard Operation and Maintenance Manual for Item C, subparagraph 7, Paragraph 2.04, Miscellaneous Facilities, within Section II be modified. The requirement to begin well observations 48 to 72 hours prior to the river stage being forecasted to reach 20 feet is incompatible with current practice. Reclamation District 1000, local maintaining agency for unit 124, and the City of Sacramento, local maintaining agency for unit 117, commence highwater inspections when the "I" Street gage on the Sacramento River measures approximately 25 feet. The Department of Water Resources' Sacramento Maintenance Yard, local maintaining agency for unit 115, commences highwater inspections when the "I" Street gage measures at least 23 feet and the Sacramento River is forecasted to rise. Therefore, to combine the highwater inspections and observation well readings into a more efficient task, the Board recommends that observation well readings begin once the gage at "I" Street reaches 25 feet and readings shall be taken as close to 12-hour intervals as possible. The Board and local maintaining agencies believe the following draft of Item C is reasonable and within their ability to perform:

(c) Highwater monitoring of the observation wells should begin when the river stage at the I Street gage is forecasted to reach an elevation of 25 feet and should continue until the river stage recedes below elevation 25 as conditions permit. Observations should be made as reasonably close to 12-hour intervals as possible.

3/28/94 - Orig sent to
Carter by Section for
action

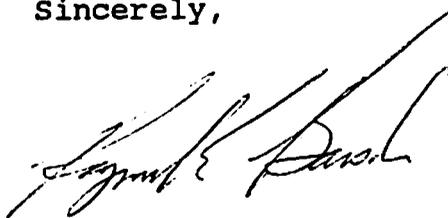
Colonel John N. Reese

FEB 15 1994

Page Two

For further information, please contact me at (916) 653-5434 or have your staff contact Ricardo Pineda at (916) 327-1596 or Victor Pacheco at (916) 327-1532.

Sincerely,



Raymond E. Barsch
General Manager

cc: Mr. John P. Saia
Programs and Project Management
Division
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Mr. Larry Johnson
Programs and Project Management
Division
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922



DEPARTMENT OF THE ARMY
U.S. Army Engineer District, Sacramento
Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

REPLY TO
ATTENTION OF

Operations and Readiness Branch

AUG 22 2012

Mr. Jay Punia, Executive Officer
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, California 95821

Dear Mr. Punia:

This letter is to transfer work performed by the Sacramento River Bank Protection Project to the Central Valley Flood Protection Board for Operation and Maintenance (O&M). The U.S. Army Corps of Engineers (USACE) completed work at the following locations:

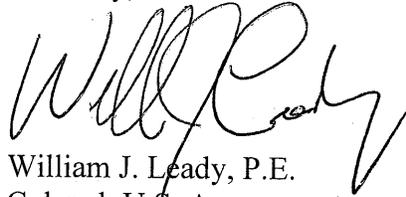
River	Site Name	O&M Manual Unit#	Drawing No.	Contract No.
Sacramento River	50.2 L	115	50-04-6118	W91238-06-C-0101
Sacramento River	51.5 L	115	50-04-6118	W91238-06-C-0101
Sacramento River	72.2 R	123	50-04-6245	W91238-06-C-0018
Sacramento River	99.3 R	130	50-25-6248	W91238-06-C-0019
Sacramento River	177.8 R	140	50-04-6280	W91238-08-C-0011
Lower American River	0.3 L	118 Part 1	50-04-6280	W91238-08-C-0011
Lower American River	2.8 L	118 Part 1	50-04-6280	W91238-08-C-0011
Feather River	28.5 R	144	50-04-6301	W91238-09-C-0021

The above work was completed under the "Agreement Between The United States of America and The State of California for Local Cooperation on the Sacramento River Bank Protection Project California," dated April 20, 1984. The work was completed in accordance with the drawings and contract numbers shown above.

The work shown above is considered complete as of the date of this letter. Attached are the revised O&M Manual Supplements. A copy of the As-Constructed drawings for the above work is included in Exhibit B of each supplement. The rehabilitation work meets the requirements of the O&M Manuals and enclosed revisions. The Central Valley Flood Protection Board shall continue to operate and maintain the completed sites as part of the project.

If you have any questions regarding the Sacramento River Bank Protection Project, please contact Mr. Dave Cook, Project Manager, at (916) 557-7890. If you have any questions regarding this transfer, please contact Mr. Ryan Larson at (916) 557-7568.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. Leady". The signature is stylized and cursive, with a large initial "W" and a long, sweeping tail.

William J. Leady, P.E.
Colonel, U.S. Army
District Commander

Enclosure

Sac Bank Turnover 50.2L, 51.5L, 72.2R, 99.3R, 177.8R, .3L, 2.8L, 28.5R

for NAGY CO-O R12

OLSEN *PO*

HOLM *BSH*

TORBIK *R7*

for NAGY ED-D *WH*

PERLEA *MP*

FONTAINE *JA*

for POEPPELMAN *RFM*

CATINE *for ST*

COOK *DC*

CUNLEY *JA*

FAUSTINO *# 8/24/12*

MULLINS *for ST*

LEADY *W*

cc:
CESPK-CO-OR (NAV/FLD CTRL FILE)
CESPK-PM-C (COOK)
CESPK-RE
CESPK-ED

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

CORPS OF ENGINEERS, U. S. ARMY
Office of the District Engineer
SACRAMENTO DISTRICT
Wright Bldg., 1209-8th St.
Sacramento, California

TO: The District Engineer
Sacramento District
Corps of Engineers
1209-8th Street
Sacramento, California

(1 May 19____)
(1 Nov. 19____)

Dear Sir:

The semi-annual report for the period (1 May 19____ to 31 October 19____)
(1 November 19____ to 30 April 19____) Sacramento River Flood Control Project
Unit No. 115, the east levee of the Sacramento River from Sutterville Road
to the North Boundary of R.D. No. 744, of the Sacramento River Flood Control
Project is as follows:

a. The physical condition of the protective works is indicated by the
inspector's report, copies of which are inclosed, and may be summarized as
follows:

(Superintendent's summary of conditions)

It is our intention to perform the following maintenance work in
order to repair or correct the conditions indicated:
(Outline the anticipated maintenance operations for the following
6 months.)

b. During this report period, major high water stages (water level at
25.0 on the U. S. Weather Bureau recording gage at the "I" Street Bridge)
occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevation</u>
_____	_____
_____	_____
_____	_____

Comments on the behaviour of the protective works during such high water periods are as follows:

(Superintendent's log of flood observations)

During the high water stages when the water leve reached a height of _____, on the gage or excess thereof (dates) _____, it was necessary to organize and carry out flood operations as follows:

(See Maintenance Manual_____.)

c. The inspections have indicated (no) or (the following) encroachments or trespasses upon the project right-of-way.

d. (No) (_____) permits have been issued for (the following) improvements or construction within the project right-of-way.

Executed copies of the permit documents issued are transmitted for your files.

e. The status of maintenance measures, indicated in the previous semi-annual report as being required or as suggested by the representatives of the District Engineer, is as follows:

(Statement of maintenance operations, item by item with percent completion.)

f. The fiscal statement of the Superintendent's operations for the current report period is as follows:

	<u>Labor</u>	<u>Material</u>	<u>Equipment</u>	<u>Overhead</u>	<u>Total</u>
1. Inspection					
2. Maintenance					
3. Flood fighting operations					
TOTAL					

Respectfully Submitted,

Superintendent of Works

Exhibit H

Local Cooperation Agreement

AGREEMENT BETWEEN
THE UNITED STATES OF AMERICA
AND
THE STATE OF CALIFORNIA
FOR LOCAL COOPERATION ON THE
SACRAMENTO RIVER BANK PROTECTION PROJECT CALIFORNIA

THIS AGREEMENT entered into this 20th day of April 1984 by and between the UNITED STATES OF AMERICA (hereinafter called the "Government"), represented by the Contracting Officer executing this agreement, and the STATE OF CALIFORNIA, (hereinafter called the "State"), represented by the California State Reclamation Board, WITNESSETH THAT:

WHEREAS, construction of the Sacramento River Flood Control Project, California (hereinafter call the "Project"), was authorized by Congress in the Flood Control Act of 1960, approved 86th Congress, Second Session (Public Law 86-645), as supplemented by the River Basin Monetary Authorization Act of 1974, approved 93rd Congress, Second Session (Public Law 93-251), as supplemented further by Joint Resolution of Congress (Public Law 97-377); and

WHEREAS, the State hereby represents that it has the authority and capability to furnish the non-federal cooperation required by the federal legislation authorizing the Project and by other applicable law.

NOW, THEREFORE, the parties agree as follows:

1. The State agrees that, upon notification that the Government will commence construction of the Sacramento River Bank Protection Project substantially in accordance with federal legislation authorizing such Project, Public Law 86-645 and Public Law 93-251, the State shall, in consideration of the Government commencing construction of such Project, fulfill the requirements of non-federal cooperation specified in such legislation, to wit:

a. Provide, without cost to the Government, all real estate interests necessary for the Project;

b. Hold and save the Government free from damages due to the construction, operation and maintenance of the Project except damages due to the fault or negligence of the Government or its contractors;

c. Operate and maintain the Project, or integral parts thereof, in accordance with regulations prescribed by the Secretary of the Army;

d. Undertake all relocations and alterations of roads, bridges (except railroad bridges), buildings, irrigation facilities, and other utilities which are necessary for the construction and operation of the Project;

f. Comply with Section 601 of Title VI of the Civil Rights Act of 1964 (Public Law 88-352) that no person shall be excluded from participation in, denied the benefit of, or be subjected to discrimination in connection with the Project on the grounds of race, creed, or national origin;

g. Assure that, in conjunction with acquiring rights-of-way, affected persons will be adequately informed of the benefits, policies, and procedures described in the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public Law 91-646), and in accordance with Sections 210 and 305 of said Act and implementing regulations, assure that;

(1) Fair and reasonable relocation payments and assistance shall be provided to or for displaced persons, as are required to be provided by a Federal agency under Sections 202, 203 and 204 of the Act;

(2) Relocation assistance programs offering the services described in Section 205 of said Act shall be provided to such displaced persons;

(3) Within a reasonable period of time prior to displacement, decent, safe, and sanitary replacement dwellings will be available to displaced persons in accordance with Section 205(c)(3) of said Act;

(4) In acquiring real property, it will be guided, to the greatest extent practicable under State law, by the land acquisition policies in Section 301 and the provisions of Section 302 of said Act;

h. Assume responsibility and pay damages, if necessary, in the event there is a failure to perform in accordance with the terms of this agreement and any other applicable provisions of Section 221 of Public Law 91-611;

1. Contribute an amount in cash which, when added to the cost of lands, easements, rights-of-way, and utility changes, equals one-third of the cost of each unit of the remedial work, this contribution to be based on the cost of the improvements shown by estimates approved by the Chief of Engineers to have economic superiority over possible alternative measures;

(1) The State shall maintain books, records, documents and other evidence pertaining to costs and expenses incurred in the acquisition of the required real estate interests to the extent and in such detail as will properly reflect all net costs of whatever nature involved therein. The State shall make available at their offices at reasonable times, the accounting records for inspection and audit by an authorized representative of the Division or District Commander.

(2) The Government shall credit the State for its participation upon receipt of properly certified invoices, in quadruplicate, supported by such evidence of payment as may be required by the contracting officer and upon approval of the sufficiency of the real estate interests acquired by the contracting officer.

j. For reaches where local interests prefer bank stabilization to the setbacks recommended by the Chief of Engineers, contribute the costs over and above the costs of setbacks, and provide also the local contribution as indicated above;

2. This Agreement shall apply only to the second phase of work on the Project as described in the supporting engineering documents and shall not revoke, rescind, modify or otherwise alter any prior agreements or assurances on this Project.

3. The State hereby gives the Government a right to enter, at reasonable times and in a reasonable manner, upon land which it owns or controls, for access to the Project for the purpose of inspection, and for the purpose of repairing and maintaining the Project if such inspection shows that the State for any reason is failing to repair and maintain the Project in accordance with the assurances hereunder and has persisted in such failure after a reasonable notice in writing by the Government delivered to the California State Reclamation Board. No repair and maintenance by the Government in such event shall operate to relieve the State of responsibility to meet its obligations as set forth in paragraph 1 of the Agreement, or to preclude the Government from pursuing any other remedy at law or equity.

IN WITNESS WHEREOF, the parties hereto have executed this contract on the day and year first above written.

THE UNITED STATES OF AMERICA

APPROVED:

By *Arthur E. Williams*
Colonel, Corps of Engineers
District Engineer
Contracting Officer

FOR THE SECRETARY OF THE ARMY

DATE: 2 May 84

THE STATE OF CALIFORNIA

By: *Robert E. Bush*
The Reclamation Board

DATE: April 20, 1984

CERTIFICATE OF APPROVAL

I, the undersigned Attorney General for the State of California, hereby certify that I have reviewed the contract dated the 20th day of April, 1984, between the United States of America and the State of California through the Board of Reclamation and have approved said contract and the provisions contained therein, both as to form and substance, including, but not limited to, those provisions whereby the State of California has agreed to pay damages, if necessary, in the event of failure to perform in accordance with Section 221 of Public Law 91-611.

IN WITNESS WHEREOF, I have made and executed this Certificate
this 17th day of April, 1984.

JOHN K. VAN DE KAMP, Attorney General

By: William D. Cravens
Deputy Attorney General
State of California

CERTIFICATE OF AUTHORITY

I, David B Anderson do hereby certify that I am one of the attorneys for the Reclamation Board, that the Board is a legally constituted public body with full authority and legal capability to perform the terms of the agreement between the United States of America and the Board in connection with the Sacramento River Bank Protection Project, to pay damages, if necessary, in the event of the failure to perform in accordance with Section 221 of Public Law 91-611, that the person who has executed the contract on behalf of the Board has acted within his or her statutory authority, and that the Board has satisfied the legal requirements of Article 13B of the California Constitution and Section 8517.1 of the California Water Code.

IN WITNESS WHEREOF, I have made and executed this Certificate this 17 day of April, 1984.

By: David B Anderson
Attorney for the Reclamation Board

CERTIFICATE OF APPROVAL

I, the undersigned Attorney at Law, as legal counsel for The Reclamation Board which has undertaken to act as local sponsor of the Sacramento River Bank Protection Project, hereby certify that I have reviewed the contract dated the 20th day of April, 1984, between the United States of America and the Board and have approved said contract and the provisions contained therein, both as to form and substance, including, but not limited to, those provisions whereby the Board has agreed to pay damages, if necessary, in the event of failure to perform in accordance with Section 221 of Public Law 91-611.

IN WITNESS WHEREOF, I have made and executed this Certificate this 17 day of April, 1984.

By: David B. Adams
Attorney for the Reclamation Board

DECLARATION OF FINANCIAL ABILITY

I, Raymond Bush, General Manager of the State Reclamation Board, do hereby declare that the Board, under the laws of the State of California, is financially capable of meeting the construction, operation and maintenance costs of the Project and is in compliance with Article 13B of the California Constitution and Section 8617.1 of the California Water Code.

I further declare that the Reclamation Board Activities Program fund will be used for the purpose of construction, operation and maintenance of the Project. There were \$ 1,851,000 allocated to the fund for this fiscal year. As of this day there is a balance of \$ 234,150 on hand in that fund. *There is \$2,150,000 allocated to the fund for fiscal year 1985.*

Dated this 20th day of April, 1984.

By: 
General Manager, State Reclamation Board

Sacramento River Bank Protection Project,
California

DECLARATION OF FINANCIAL ABILITY

I, Raymond Darsch, General Manager of the State Reclamation Board, do hereby declare that the Board, under the laws of the State of California, is financially capable of meeting the construction, operation and maintenance costs of the Project and is in compliance with Article 138 of the California Constitution and Section 8617.1 of the California Water Code.

I further declare that the Reclamation Board Activities Program fund will be used for the purpose of construction, operation and maintenance of the Project. There were \$ 1,831,000 allocated to the fund for this fiscal year. As of this day there is a balance of \$ 234,000 on hand in that fund. There is \$2,150,000 allocated to the fund for fiscal year 1985.

Dated this 20th day of April, 1984.

By: 
General Manager, The Reclamation Board

Sacramento River Bank Protection Project,
California



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO, CALIFORNIA 95814-2922

03/22/2006

Executive Office

Mr. Dan S. Fua, Acting General Manager
The Reclamation Board
State of California
3310 El Camino Avenue, Room LL40
Sacramento, California 95821

MAR 22 2006

Dear Mr. Fua:

A Local Cooperation Agreement (LCA) for the Sacramento River Bank Protection Project, California was executed between the Department of the Army and the State of California on April 20, 1984. The LCA was executed based on authority provided through the Flood Control Act of 1960 (Public Law 86-645); and, this authority was further supplemented through the River Basin Monetary Authorization Act of 1974 (Public Law 93-251) and a Joint Resolution of Congress (Public Law 97-377).

The enclosed amendment establishes the maximum length of bank erosion repair at 405,000-linear feet in accordance with the referenced project authority. Execution of the enclosed amendment was completed based upon review and approval by the President of the State of California Reclamation Board on March 18, 2006. One complete copy of this amendment has been enclosed for your records.

If you have any questions or concerns with regard to this issue, please feel free to contact the Project Manager, Mr. Stan Wallin, at (916) 557-5225.

Sincerely,

Ronald N. Light
Colonel, U.S. Army
District Engineer

Enclosure

Copy Furnished (w/encl):

Ms. Deborah Condon, State of California, Department of Water Resources, 3310 El Camino Avenue, Room 140, Sacramento, CA, 95821

**AMENDMENT NUMBER 1
TO THE
LOCAL COOPERATION AGREEMENT
BETWEEN
THE DEPARTMENT OF THE ARMY
AND
THE STATE OF CALIFORNIA
ON THE SACRAMENTO RIVER BANK PROTECTION PROJECT**

THIS AMENDMENT is entered into this 12 day of MARCH 2006 by and between the **DEPARTMENT OF THE ARMY** (hereinafter represented by the Assistant Secretary of the Army (Civil Works)), and the **STATE OF CALIFORNIA** (hereinafter the "Non-Federal Sponsor"), represented by the Reclamation Board.

WITNESSETH, THAT:

WHEREAS, the Government and the Non-Federal Sponsor entered into a Local Cooperation Agreement on April 20, 1984 (hereinafter referred to as the "Agreement") for the Sacramento River Bank Protection Project (hereinafter referred to as the "Project");

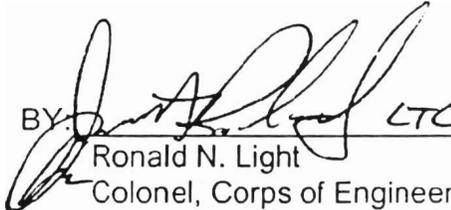
WHEREAS, the original agreement terms failed to reference a number for the lineal feet of river bank authorized by the statute for inclusion in the project,

NOW, THEREFORE, the Government and the Non-Federal Sponsor agree that the Agreement is hereby amended in the following particulars but in no others by adding the following:

4. As the original agreement terms failed to reference a number for the lineal feet of river bank authorized by the statute for inclusion in the project, the agreement is hereby amended to state the authorized project lineal footage is 405,000 linear feet, as established by the Flood Control Act of 1960, approved 86th Congress, Second Session (Public Law 86-645), as supplemented by the River Basin Monetary Authorization Act of 1974, approved 93rd Congress, Second Session (Public Law 93-251), as supplemented further by Joint Resolution of Congress (Public Law 97-377).

IN WITNESS WHEREOF, the parties hereto have executed this amendment to the Agreement, which shall become effective upon the date it is signed by the authorized representative of the Government.

THE DEPARTMENT OF THE ARMY

BY:  LTC
Ronald N. Light
Colonel, Corps of Engineers
Sacramento District

DATE: 26 MARCH 2006

THE STATE OF CALIFORNIA

Represented by the Reclamation Board

BY: 
Ben Carter
Reclamation Board
President

DATE: 18 MARCH 2006

CERTIFICATE OF AUTHORITY

I, Scott Morgan, do hereby certify that I am the principal legal officer of the State of California, acting by and through its Reclamation Board, a legally constituted public body with full authority and legal capability to perform the terms of the Agreement between the Department of the Army and the State of California, as amended by Amendment Number 1 to the Agreement, in connection with THE SACRAMENTO RIVER BANK PROTECTION PROJECT and to pay damages in accordance with the terms of the amended Agreement, if necessary, in the event of the failure to perform, as required by Section 221 of Public Law 91-611 (42 U.S.C. Section 1962d-5b), and that the persons who have executed this Agreement on behalf of the City of Oakland, California, the State of California, acting by and through its Reclamation Board, have acted within their statutory authority.

IN WITNESS WHEREOF, I have made and executed this certification on this 16 day of March 2006.


Attorney for the Reclamation Board

CERTIFICATION REGARDING LOBBYING

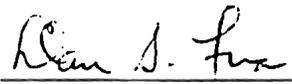
The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

BY: 
Dan Fua
The Reclamation Board
Acting Manager

DATE: MAR 17 2005

CERTIFICATION OF LEGAL REVIEW OF THE
LOCAL COOPERATION AGREEMENT AMENDMENT 1
BETWEEN THE DEPARTMENT OF THE ARMY
AND
THE STATE OF CALIFORNIA DEPARTMENT OF WATER
RESOURCES/THE RECLAMATION BOARD

Amendment 1 for the Sacramento River Bank Protection Project, including associated documents required by both parties for the Local Cooperation Agreement, dated April 20, 1984 including explicating appendices dated September 7, 1988, has been reviewed by the Office of Counsel, Sacramento District and is approved as legally sufficient.

Date 11/16/2000



WILLIAM HENSON
Sr. Assistant District Counsel

**AMENDMENT NUMBER 2
TO THE
AGREEMENT BETWEEN
THE UNITED STATES OF AMERICA
AND
THE STATE OF CALIFORNIA
FOR LOCAL COOPERATION ON THE
SACRAMENTO RIVER BANK PROTECTION PROJECT CALIFORNIA**

THIS AMENDMENT is entered into this 5th day of MAY, 2006, by and between the **UNITED STATES OF AMERICA**, acting by and through the **DEPARTMENT OF THE ARMY** (hereinafter the "Government"), represented by the Assistant Secretary of the Army (Civil Works), and the **STATE OF CALIFORNIA**, acting by and through the California State Reclamation Board (hereinafter the "State"), represented by its President.

WITNESSETH, THAT:

WHEREAS, the Government and the State entered into a Local Cooperation Agreement on April 20, 1984 (hereinafter referred to as the "Agreement") for construction of the second phase of the Sacramento River Bank Protection Project (hereinafter referred to as the "Project");

WHEREAS, the Agreement was subsequently amended on March 26, 2006, to add paragraph 4 to the Agreement in order to state the authorized lineal footage for the second phase of the Project;

WHEREAS, the State proposes to accelerate its provision of funds to the Government in an amount not to exceed the current estimate of the State's required cash contribution for the Project, less any funds previously contributed, for the immediate use by the Government for construction of the Project; and

WHEREAS, the parties agree that such acceptance shall not represent or give rise to an obligation of the United States, including any obligation to provide reimbursement of the funds the State elects to provide or any obligation to request future funds to match the amount the State elects to provide, and that such funds will be credited against the State's future cost share only if additional Federal funds are appropriated.

NOW, THEREFORE, the Government and the State agree that the Agreement, as previously amended, is hereby further amended in the following particulars but in no others by adding the following paragraph:

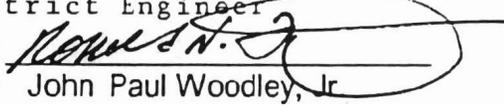
5. In fulfilling the obligations set forth in paragraph 1 of this Agreement, the following conditions and procedures shall apply to a State offer to accelerate its contribution of funds to the Government:

a. The State may offer in writing to accelerate a portion or all of its required cash contribution during the period of construction for immediate use by the Government. This offer shall be limited to an amount that does not exceed the most current estimate of the total of the State's required cash contribution as determined by the Government in coordination with the State, less any funds previously contributed by the State. Upon receipt of such offer or offers, the Government, subject to receiving such approvals and concurrences as customarily are required to accept such funds, may accept the funds, or such portion thereof as the Government determines to be necessary to meet the costs of construction of the Project. If the Government elects to accept such funds, it shall notify the State of such acceptance in a writing that sets forth any applicable terms and conditions. In the event of a conflict between this Agreement and any such writing, this Agreement shall control. Such funds shall be used by the Government for construction of the Project.

b. As Federal appropriations are made available to pay the Federal share of construction of the Project, the Government shall afford credit for funds provided during the period of construction in accordance with paragraph 5.a. of this Agreement. The Government shall credit this amount, provided during the period of construction, toward the State's cash contribution. If after the final accounting at the end of the period of construction, it is determined that the State has provided funds in excess of its required cash contribution, the Government shall proceed to determine whether a refund is applicable. However, if in the event of a final accounting due to termination prior to the end of the period of construction, it is determined that the State has provided funds in excess of its required cash contribution, the Government shall not reimburse the State for any such excess funds, except that any such excess funds which have not been obligated by the Government on the Project shall be refunded to the State, subject to the availability of funds.

IN WITNESS WHEREOF, the parties hereto have executed this amendment to the Agreement, which shall become effective upon the date it is signed by the authorized representative of the Government.

THE UNITED STATES OF AMERICA
acting by and through the
Department of the Army
Ronald N Light, Colonel
District Engineer

BY: 
FOR John Paul Woodley, Jr.
Assistant Secretary of the Army
(Civil Works)

DATE: 5/5/06

THE STATE OF CALIFORNIA,
acting by and through the
California State Reclamation Board

BY: 
Ben Carter
President
California State Reclamation Board

DATE: 5 MAY 2006

CERTIFICATE OF AUTHORITY

I, Scott R. Mowse, do hereby certify that I am the principal legal officer of the California State Reclamation Board, that the State Reclamation Board is a legally constituted public body with full authority and legal capability to perform, on behalf of the State of California, the terms of the Agreement between the United States of America and the State of California, as amended by Amendment Number 2 to the Agreement, in connection with the Sacramento River Bank Protection Project, and to pay damages in accordance with the terms of the amended Agreement, if necessary, in the event of the failure to perform, as required by Section 221 of Public Law 91-611 (42 U.S.C. Section 1962d-5b), and that the persons who have executed this Agreement on behalf of the State of California, acting by and through its State Reclamation Board, have acted within their statutory authority.

IN WITNESS WHEREOF, I have made and executed this certification on this 5th day of May, 2006.

Scott R. Mowse

Attorney for the California State Reclamation Board

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

BY: Stephen T. Brodley
for Dan Fua
Acting Manager
California Reclamation Board

DATE: 5-5-06

**AMENDMENT NUMBER 3
TO THE
LOCAL COOPERATION AGREEMENT
BETWEEN
THE DEPARTMENT OF THE ARMY
AND
THE STATE OF CALIFORNIA
ON THE SACRAMENTO RIVER BANK PROTECTION PROJECT
CALIFORNIA**

THIS AMENDMENT is entered into this 20~~th~~ day of JUNE 2006, by and between the DEPARTMENT OF THE ARMY (hereinafter referred to as the "Government"), represented by the U.S. Army Engineer, Sacramento District, and the State of California (hereinafter referred to as the "State"), acting by and through the State Reclamation Board, represented by its President.

WITNESSETH, THAT:

WHEREAS, the Sacramento River Bank Protection project, California (hereinafter referred to as the "Project"), as described in Senate Document No. 103, 86th Congress, 2nd Session, and House Document No. 93-151, 93rd Congress, 1st Session, was authorized by Section 203 of the Flood Control Act of 1960, Public Law 86-645 (74 Stat. 498), as supplemented by Section 202 of the River Basin Monetary Authorization Act of 1974, Public Law 93-251 (88 Stat. 49) and by Public Law 97-377 (96 Stat. 1916);

WHEREAS, the Government and the State entered into a Local Cooperation Agreement (hereinafter referred to as the "Agreement") on April 20, 1984, for construction of the Project;

WHEREAS, the Government and the State entered into Amendment Number 1 to the Agreement on March 26, 2006 to identify the authorized lineal footage for the Project;

WHEREAS, the Government and the State entered into Amendment Number 2 to the Agreement on May 5, 2006 to document the State's proposal to accelerate its provision of funds to the Government;

WHEREAS, Section 215 of the Flood Control Act of 1958, Public Law 90-483, as amended (42 U.S.C. 1962d-5a; hereinafter "Section 215"), provides that the Secretary of the Army may, when he determines it to be in the public interest, enter into agreements providing for credit to States or political subdivisions thereof for the costs of certain work

performed by such non-Federal bodies at authorized water resources development projects;

WHEREAS, the State desires to perform certain work (hereinafter the "Section 215 work") which is a part of the Project and receive credit pursuant to Section 215 for the costs of such work;

WHEREAS, it has been determined that providing the State credit toward the amount of its required contributions for the Project for the costs of the Section 215 work to be accomplished by the State pursuant to this Amendment Number 3 is in the public interest; and

WHEREAS, Section 215 limits the amount of credit that may be provided for a single project to no more than \$5,000,000 or 1 percent of the total project costs, whichever is greater.

NOW, THEREFORE, the Government and the State agree that the Agreement, as previously amended, is hereby further amended in the following particulars but in no others:

1. Paragraph 1.i. of the Agreement is amended by deleting the phrase: " and utility changes," and substituting "utility changes, and the credit to be afforded for the Section 215 work pursuant to paragraph 6.h. of this Agreement,".

2. Paragraph 1.i(1) of the Agreement is amended by adding "and performance of the Section 215 work" after "interests".

3. The Agreement is amended by adding Paragraph 6 at the end thereof:

"6. The State shall perform the Section 215 work, described below, pursuant to Section 215 of the Flood Control Act of 1958, Public Law 90-483, as amended, subject to the conditions and limitations of this paragraph.

a. The State shall construct 3 setback levees, as described below, along the left bank of Cache Creek at three critical erosion sites located at Levee Miles (LM) 0.8, LM1.1 and LM 2.4 in Yolo County northwest of the City of Woodland and north and south of the town of Yolo. The project is described in two environmental documents – *Cache Creek North Levee Setback Project, Critical Erosion Sites 1, and 2* and *Cache Creek North Levee Setback Project, Critical Erosion Site 3*.

(1) Site 1 at LM 0.8 – A new levee will be constructed approximately 700 feet in length, and would be placed between 100 and 50 feet from the existing levee. Approximately 3,900 cubic yards of material would be needed for construction. Drawing no. S3-1, S3-2, S3-3, S3-4 and S3-5 provide design details.

(2) Site 2 at LM 1.1 – A new levee will be constructed approximately 825 feet in length, and would be placed between 100 and 50 feet from the existing levee. Approximately 4,500 cubic yards of material would be needed for construction. Drawing no. S4-1, S4-4, and S4-5 provide design details.

(3) Site 3 at LM 2.4 – A new levee will be constructed approximately 890 feet in length, and would be placed approximately between 100 and 50 feet from the existing levee. Approximately 7,200 cubic yards of material would be needed for construction. Drawing no. S5-1, S4-2, S5-3, and S5-4 provide design details.

The base of all three new levees will be between 40 and 50 feet wide. The new levees will tie into the existing levee that would be left in place; notches would be cut into the existing levee at each site to provide for drainage of areas between the existing and new setback levees. Construction of the setback levees will take approximately 3 months.

b. Manner of Performing the Section 215 Work. The Section 215 work includes the preparation of the design memorandum, engineering plans, geology reports, and the environmental review. The U.S. Army Corps of Engineer District, Sacramento, environmental planning staff will participate in the environmental review to insure compliance with Federal environmental law. In addition, the State will provide funding to the U.S. Army Corps of Engineer District, Sacramento, to review all designs, plans and specifications, and to perform construction quality assurance.

c. Review of Designs, Detailed Plans and Specifications. No construction of Section 215 work shall commence under this Agreement until the designs, detailed plans and specifications, and arrangements for prosecution of the work have been approved by the U.S. Army Engineer, Sacramento District (hereinafter the "District Engineer"). Proposed changes in approved designs, plans, and specifications also must be reviewed and approved by the District Engineer in advance of the related construction.

d. Prosecution of Work by Contract. In the event the State prosecutes the Section 215 work described herein by contract, all bids received and the proposed provisions of any contract shall be subject to review by the Government prior to contract award. Any such contract shall contain all of the applicable provisions required by Federal laws and regulations, including, but not necessarily limited to, applicable labor and equal opportunity provisions.

e. **Environmental Requirements.** No construction of Section 215 work shall commence under this Agreement until all applicable environmental laws and regulations have been complied with, including, but not limited to the National Environmental Policy Act of 1969 (42 U.S.C. 4321–4347) and Section 401 of the Federal Water Pollution Control Act (33 U.S.C. 1341).

f. **Expiration of Period to Commence Section 215 Work.** In order for the Section 215 work to be eligible for credit pursuant to this paragraph the Section 215 work must be commenced within one year of the effective date of Amendment Number 3 to this Agreement.

g. **Determination of Costs of Section 215 Work.** The Government shall determine the costs incurred by the State for Section 215 work, subject to the conditions and limitations of this paragraph. The State in a timely manner shall provide the Government with such documents as are sufficient to enable the Government to determine the amount of costs for Section 215 work.

(1) Section 215 work shall be subject to an on-site inspection and determination by the Government that the work was accomplished in a satisfactory manner and is suitable for inclusion in the Project.

(2) The amount of the State's costs for Section 215 work shall be subject to an audit to determine the reasonableness, allocability and allowability of such costs.

(3) The costs of any Section 215 work undertaken by the State prior to the effective date of Amendment Number 3 to this Agreement shall not be included in the costs considered for credit pursuant to this Agreement.

(4) The State's costs for Section 215 work are not subject to interest charges, nor are they subject to adjustment to reflect changes in price levels between the time the Section 215 work is completed and the time the credit for such costs is afforded.

(5) In the performance of the Section 215 work, the State must comply with applicable Federal labor laws covering non-Federal construction, including, but not limited to, 40 U.S.C. 3141-3148 and 40 U.S.C. 3701-3708 (revising, codifying and enacting without substantive change the provisions of the Davis-Bacon Act (formerly 40 U.S.C. 276a *et seq.*), the Contract Work Hours and Safety Standards Act (formerly 40 U.S.C. 327 *et seq.*) and the Copeland Anti- Kickback Act (formerly 40 U.S.C. 276c)). Costs for the Section 215 work may not be included in the costs considered for credit by the Government, in whole or in part, as a result of the State's failure to comply with its obligations under these laws.

(6) For purposes of affording of credit for Section 215 work under paragraph 6.h. of this Agreement, the costs of the Section 215 work shall not include the costs of the lands, easements, rights-of-way, and utility changes that are associated with the Section 215 work.

h. Affording of Credit for Section 215 Work. The Government, in accordance with this paragraph, shall afford credit toward the State's contribution of funds required under paragraph 1.i. of this Agreement for the costs of the Section 215 work determined in accordance with paragraph 6.g. of this Agreement.

(1) The amount of credit to be afforded by the Government shall not exceed the Government's estimate of what the cost of the Section 215 work would be if were to be accomplished by the Government as a component of the Project, or the State's actual auditable costs for the section 215 work, whichever is less. As of the effective date of Amendment Number 3 to this Agreement, the Government's estimate of the Section 215 work is \$1,892,460.00.

(2) The credit for the Section 215 work shall be applied solely against the State's required cost-share contributions for future bank protection work under the Project.

(3) Notwithstanding any other provision of this Agreement, the amount of credit afforded by the Government for the Section 215 work, in combination with any credit provided pursuant to any other Section 215 agreements executed for the Project, shall not exceed the statutory limitation of \$5,000,000 or 1 percent of total project costs, whichever is greater. For the purposes of this Agreement, the term "total project costs" shall be understood to mean the sum of Federal and non-Federal first costs upon conclusion of the project construction actually and finally undertaken.

i. This Agreement shall not be construed as either committing the Government to assume any responsibility placed upon the State or any other non-Federal entity by the conditions of project authorization or any other applicable statute or regulation, or as committing the Government to reimburse the State if the remaining work on the Project is not undertaken or is modified so as to make the Section 215 work performed by the State no longer an integral part of the Project."

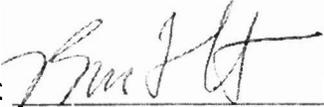
4. All other terms and conditions of the Agreement, as previously amended, remain unchanged.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment Number 3 which shall become effective upon the date it is signed by the Assistant Secretary of the Army (Civil Works).

THE DEPARTMENT OF THE ARMY

THE STATE OF CALIFORNIA
The Reclamation Board

BY:  LTC/EN
for Ronald N. Light
Colonel, Corps of Engineers
District Engineer

BY: 
Benjamin F. Carter
President
The Reclamation Board

DATE: 20 JUN 06

DATE: 20 JUNE 2006

CERTIFICATE OF AUTHORITY

I, Scott R. Morgan do hereby certify that I am the principal legal officer of the California State Reclamation Board, that the State Reclamation Board is a legally constituted public body with full authority and legal capability to perform, on behalf of the State of California, the terms of the Agreement between the United States of America and the State of California, as amended by Amendment Number 3 to the Agreement, in connection with the Sacramento River Bank Protection Project, and to pay damages in accordance with the terms of the amended Agreement, if necessary, in the event of the failure to perform, as required by Section 221 of Public Law 91-611 (42 U.S.C. Section 1962d-5b), and that the persons who have executed this Agreement on behalf of the State of California, acting by and through its State Reclamation Board, have acted within their statutory authority.

IN WITNESS WHEREOF, I have made and executed this certification on this
16 day of June 2006

Scott R. Morgan
Scott Morgan, Counsel
The Reclamation Board

CERTIFICATION REGARDING LOBBYING

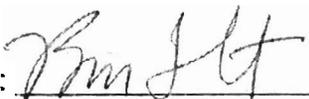
The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

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This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

BY: 
Benjamin F. Carter
President
The Reclamation Board

DATE: 20 JUNE 2006

Exhibit I
Biological Opinion

This is an excerpt from USFWS BO June 23, 2008 Reference #81420-2008-F-0805-1, and NOAA Fisheries BO July 2, 2008 Reference #2007/07158 and applies to work performed at Sacramento River RM 50.2L, 51.5L,

Operations and Maintenance:

Once repairs are complete, a project site may require limited maintenance. During the initial establishment period, maintenance activities are anticipated to be required for 3 to 5 years, and include removing invasive vegetation detrimental to project success, pruning and watering planted vegetation to promote optimal growth, replacing plantings, monitoring navigational hazards, and placing fill and rock revetment if the site is damaged during high flow events or by vandalism. Once established, the riparian vegetation should be self-maintaining. Annual maintenance at each site will be limited to placement of no more than 600 cubic yards of material, which corresponds to a disturbance length of less than 300 feet; should more material be required in any year, the operating and maintaining agency (i.e., Central Valley Flood Protection Board) will obtain the necessary permits from the regulatory agencies. The Corps will be responsible for ensuring that conservation measures and environmental standards are stipulated in permits and all required documentation is maintained. Similarly, if outside alterations of a project site are proposed by other agencies or private entities, the Corps will work with the NMFS to ensure that environmental features at the project sites are maintained or that off-site compensation is implemented to make up for any deficits.

Any needed in-water maintenance work will be conducted during time periods that minimize adverse effects on listed fish species. Unless approved otherwise by the NMFS, in-water maintenance will be conducted between July 1 and November 30 of each year for sites above RM 60 and between August 1 and November 30 for sites below RM 60. Any maintenance not requiring in-water work may be conducted year-round.

Effects of Project Operation and Maintenance:

O&M activities are expected to occur between July 1 and November 30 for the life of the project (i.e., 50 years) to maintain the flood control and environmental values of the site. Anticipated O&M actions include vegetation management and irrigation for up to three years, periodic rock placement to prevent or repair localized scouring, and periodic replacement or modification of IWM structures. Effects would be limited to the annual placement of up to 600 cubic yards of material at each site. Impacts from O&M actions generally will be similar to the impacts of initial construction, except that they will be smaller and localized. Effects may include injury or death to salmon and steelhead from predation cause by turbidity changes that temporarily disrupt normal behaviors, and affect sheltering abilities. However, since O&M actions are only expected to repair damaged elements of the project, they are expected to be infrequent (i.e., occurring only once every several years), small (i.e, only affecting small sections of the project area), and will not occur at all sites. Therefore, relatively few fish should be affected by O&M actions, and actual injury and mortality levels will be low relative to overall population abundance and not likely to cause any long-term, negative population responses. Any O&M actions that affect habitat conditions will incorporate BMPs, summer in-water construction windows, and other minimization and avoidance measures to reduce the potential for effects to anadromous salmonids, green sturgeon, and their habitat.