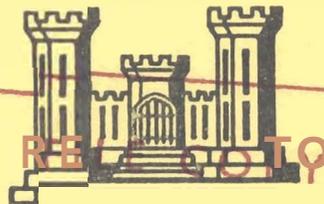


**SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL**

**SACRAMENTO RIVER
FLOOD CONTROL PROJECT**

UNIT NO. 123

**WEST LEVEE SACRAMENTO RIVER FROM
EAST END FREMONT WEIR TO MILE 70.8
AND
EAST LEVEE YOLO BYPASS FROM EAST END
FREMONT WEIR TO WOODLAND HIGHWAY
(LEVEES OF RECLAMATION DISTRICT NO. 1600)**



**SACRAMENTO DISTRICT
CORPS OF ENGINEERS**

U. S. ARMY

SACRAMENTO, CALIFORNIA

CORPS OF ENGINEERS

U. S. ARMY

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Sacramento District
Corps of Engineers
U. S. Army

August 1955

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(LEVEES OF RECLAMATION DISTRICT NO. 1600)

LOCATION	ADDITION OR REVISION	DATE
1-04 e.	Add contract no. 57-63	Nov 1963
1-04 f.	Add contract no. 57-66	Nov 1963
1-04 g.	Add contract no. 57-67	Nov 1963
1-04 h.	Add contract no. 60-29	Nov 1963
Exhibit B	Add drawing no. 50-4-3323	Nov 1963
Exhibit B	Add drawing no. 50-4-3332	Nov 1963
Exhibit B	Add drawing no. 50-4-3315	Nov 1963
Exhibit B	Add drawing no. 50-4-3613	Nov 1963
1-04 i.	Add contract no. 63-61	Oct 1964
Exhibit B	Add drawing no. 50-4-3696	Oct 1964
Exhibit F	Add letter of acceptance dated 1 Oct 1963	Oct 1964
1-04 j.	Add contract no. 64-71	Jun 1965
Exhibit B	Add drawing no. 50-4-3742	Jun 1965
Exhibit F	Add letter of acceptance dated 9 Nov 1964	Jun 1965
1-04 k.	Add contract no. 68-C-0014	Jan 1968
Exhibit B	Add drawing no. 50-4-4078	Jan 1968
Exhibit F	Add letter of acceptance dated 10 Jan 1968	Jan 1968
1-04 l.	Add contract no. 70-C-0008	Mar 1971
Exhibit B	Add drawing no. 50-4-4310	Mar 1971
Exhibit F	Add copy of letter of acceptance dated 2 Oct 1970	Mar 1971
1-04	Add subparagraph m.	Feb 1973
Exhibit B	Add drawing no. 50-4-4381	Feb 1973
Exhibit F	Add copy of letter of acceptance dated 17 Jan 1972	Feb 1973
1-04	Add subparagraph n.	Nov 1975
2-01	Add subparagraph c.	Nov 1975
Exhibit B	Add drawing no. 50-4-4713	Nov 1975
Exhibit F	Add copy of letter of acceptance dated 30 May 1974	Nov 1975
1-04	Add subparagraph o.	Aug 1977
2-01	Revised subparagraph c.	Aug 1977

LOCATION	ADDITION OR REVISION	DATE
Exhibit B	Add drawing no. 50-4-5170	Aug 1977
Exhibit F	Add copy of letter of acceptance dated 14 Dec 1976	Aug 1977
1-04	Add subparagraph p.	Sep 1981
Exhibit B	Add drawing no. 50-4-5130	Sep 1981
Exhibit F	Added letter of acceptance dated 27 Jul 1979	Sep 1981
1-04	Add subparagraph q.	Nov 1983
2-05	Environment protection	Nov 1983
Exhibit B	Add drawing no. 50-4-5433	Nov 1983
Exhibit F	Added letter of transfer dated 14 Dec 1979	Nov 1983
1-04	Add subparagraph r.	Feb 1985
Exhibit B	Add drawing no. 50-4-5718	Feb 1985
Exhibit F	Add copy of letter of transfer dated 14 Nov 1984	Feb 1985
1-04	Add subparagraph s.	Jul 1985
Exhibit B	Add drawing no. 50-4-5722	Jul 1985
Exhibit F	Add copy of letter of transfer dated 28 Nov 1984	Jul 1985
1-04	Add subparagraph t.	Sep 1990
Exhibit B	Add drawing no. 50-4-5712	Sep 1990
Exhibit F	Add copy of letter of transfer dated 27 Nov 1985	Sep 1990
1-04	Add subparagraph s(u)	Sep 1990
Exhibit B	Added drawing no. 50-4-5714	Sep 1990
Exhibit F	Added transfer letters dated 22 Dec 1986 (missing) and 30 Nov 1987	Sep 1990
1-04	Add subparagraph t(v)	Sep 1990
Exhibit B	Add drawing no. 50-4-5798	Sep 1990
Exhibit F	Added transfer letters dated 22 Nov 1989 and 10 Jan 1990 (missing)	Sep 1990
Exhibit F	Add copy of letter of transfer dated 2 Feb 1951	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 4 Dec 1952	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 26 Sep 1960	22 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 7 Oct 1960	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 5 Sep 1963	22 Dec 2010
1-04	Add subparagraph w	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 4 November 1980	22 Dec 2010
1-04	Add subparagraph x	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 16 Jan 1987	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 21 Oct 1964	2 Feb 2011
1-04	Add subparagraph y	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 2 Oct 1967	2 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 25 Oct 1967	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 12 Dec 1967	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 28 Sep 1970	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 27 Dec 1971	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 18 Nov 1976	2 Feb 2011

LOCATION	ADDITION OR REVISION	DATE
Exhibit F	Add copy of letter of acceptance dated 14 Dec 1976	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 20 May 1974	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 16 Jul 1979	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 9 Jan 1980	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 3 Mar 1986	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 27 Mar 1990	8 Mar 2011
1-04	Add subparagraph z	Jan 2012
Exhibit B	Add drawing no. 50-04-6245	Jan 2012
2-02	Move subparagraph c. Env. Values to 2-05. a.	Jan 2012
2-05	Add subparagraph b, c, d, e, & f	Jan 2012
1-03	Add page numbers and revision date	Jan 2012
1-04	Add page numbers and revision date	Jan 2012
Exhibit H	Create Exhibit H: Local Cooperation Agreement	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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EAST END FREMONT WEIR TO MILE 70.8
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EAST LEVEE YOLO BY-PASS FROM EAST END
FREMONT WEIR TO WOODLAND HIGHWAY
(LEVEE OF RECLAMATION DISTRICT NO. 1600)

SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project which includes the west levee of the Sacramento River from the east end of Fremont Weir downstream about 10.9 miles to the south boundary of Reclamation District No. 1600 at the Elkhorn Ferry crossing (River mileage from 81.7 to mile 70.8). Also the east levee of Yolo By-Pass from the east end of Fremont Weir downstream to the south boundary of Reclamation District No. 1600 at the Woodland Highway crossing, a distance of about 6.28 miles. The levees of this unit are located in Reclamation District No. 1600, in Yolo County, California, as shown on Exhibit A-1.

1-02. Protection Provided. The project works are designed to protect adjacent agricultural lands from a flood flow of 107,000 cubic feet per second in the Sacramento River Channel. The east levee of the Yolo By-Pass is designed to protect adjacent agricultural lands from a flood flow of 343,000 cubic feet per second in the Yolo By-Pass. In the Sacramento River channel, the grade of the adopted flood plane profile varies from elevation 40.30 at Fremont Weir to elevation 38.20 at the Elkhorn Ferry crossing (mile 70.8). In the Yolo By-Pass channel, the grade of the adopted flood plane profile varies from elevation 40.30 at Fremont Weir to elevation 34.40 at the south boundary of Reclamation District No. 1600 (Woodland Highway crossing). The levee grade along west levee of the Sacramento River provides a freeboard of 3 feet or more within this unit. Along the east levee of Yolo By-Pass, the levee grade was designed and constructed with a freeboard of 6 feet.

1-03. Project Works. The flood-control improvement covered by this manual is a part of the Sacramento River Flood Control Project authorized by the Flood Control Act of 1917 as modified by the Acts of 1926, 1937, 1941 and 1960, and consists of:

a. The west levee of the Sacramento River from the east end of Fremont Weir downstream about 10.9 miles to the south boundary of Reclamation District No. 1600 at the Elkhorn Ferry crossing.

b. The east levee of Yolo By-Pass from the east end of Fremont Weir downstream about 6.28 miles to the south boundary of Reclamation District No. 1600 at the Woodland Highway crossing.

1-04. Construction Data and Contractor. Original levee and channel of this unit were built by local interests. Necessary construction to bring levees to project standards was accomplished by the Corps of Engineers, Sacramento District. Such work, with the exception of a small amount of emergency work, was accomplished under the following contracts:

a. Surfacing of levee crown for patrol road purposes from station 227+41 to station 543+27 along the west levee of the Sacramento River as shown on Drawing No. 50-4-2897, sheets 1 and 3, of Exhibit B, was accomplished under Contract No. DA-04-167-eng-828, by Browne and Krull, contractors and completed on 2 December 1952, Specification No. 1636.

b. Enlargement of the east levee of Yolo By-Pass along Reclamation District No. 1600 from Fremont Weir south to the Sacramento Northern Railroad crossing was accomplished under Contract No. W-1105-eng-932 by the Olympian Dredge Co., contractor, and completed on 30 June 1933. Drawing No. 50-4-1310.

c. Completion of levee and road approaches along the east levee of Yolo By-Pass below Fremont Weir as shown on Drawing No. 50-4-1583 of Exhibit B, was accomplished under Contract No. W-1105-eng-2125 by Hemstreet and Bell, contractors, and completed on 24 December 1937.

d. Enlargement of the east levee of Yolo By-Pass from Fremont Weir south 2 miles was accomplished under contract No. W-1105-eng-5166 by H. Earl Parker, contractor, and completed on 24 July 1943. Drawing No. 50-4-2143.

e. Emergency levee repairs, right bank of Sacramento River, R.D. 1600 approximately 8 miles upstream from Elkhorn slough was accomplished under Contract No. DA-04-167-CIVENG-57-63 by C. V. Kenworthy, contractor, during the period from 17 October 1956 to 31 October 1956, Specification No. 2234, Drawing No. 50-4-3323.

f. Emergency levee repair and reconstruction, right bank Sacramento River approximately 1.4 miles downstream from in R.D. 1600 was accomplished under Contract No. DA-04-167-CIVENG-57-66 by H. Earl Parker, Inc. during the period from 8 October 1956 to 5 November 1956, Specification No. 2265, Drawing No. 50-4-3332.

g. Emergency levee repairs, east levee Yolo Bypass, R.D. 1600 was accomplished under Contract No. DA-04-167-CIVENG-57-67 by An-Nan Construction Company during the period from 8 October 1956 to 31 June 1957, Specification No. 2244, Drawing No. 50-4-3315.

h. Stone protection downstream from Fremont Weir, right bank Sacramento River was accomplished under Contract No. DA-04-167-CIVENG-60-29 by Basalt Rock Company during the period from 4 May 1960 to 19 August 1960, Specification No. 2600, Drawing No. 50-4-3613.

i. Levee construction, left bank of Yolo Bypass in the vicinity of Fremont Weir was accomplished under Contract No. DA-04-167-CIVENG-63-61 by H. Earl Parker, Inc. during the period from 24 July 1963 to 29 August 1963, Specification No. 2771, Drawing No. 50-4-3696.

j. Bank protection, right and left banks at various sites from Boyer's Bend to Monument Bend was accomplished under Contract No. DA-04-167-CIVENG-64-71 by H. Earl Parker, Inc. during the period from 23 April 1964 to 20 October 1964, Specification No. 2958, Drawing No. 50-4-3742.

k. Bank protection at Mile 79.5 on the right bank of the Sacramento River (Unit No. 12) was accomplished under Contract No. DACW03-68-C-0014 by A. Teichert and Con, Inc., during the period from 28 August 1967 to December 1967, Specification No. 3288, Drawing No. 50-4-4078.

l. Bank protection at Site Miles 71.5, 71.9, 77.0 and 77.85 on the right bank of the Sacramento River (a portion of Unit 16, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-70-C-0008 by H. Earl Parker during the period from 25 July 1969 to 23 September 1970.. Specification No. 3390. Drawing No. 50-4-4310.

m. Bank protection at Mile 81.0 on the right bank of the Sacramento River (a portion of Unit 20) was accomplished under Contract No. DACW05-71-C-0051 by Claude C. Wood during the period from 1 October 1970 to 30 October 1972. Specification No. 3459, Drawing No. 50-4-4381.

n. Bank protection and selective clearing on the right bank of the Sacramento River at Site Miles 73.1, 74.7 and 75.7 (Unit No. 24) was accomplished under Contract No. DACW05-73-C-0038 by Claude C. Wood during the period from 11 October 1972 to 6 January 1975. Specification No. 4169, Drawing No. 50-4-4713.

o. Bank protection and selective clearing on the east levee of the Yolo Bypass, upstream from S.N.R.R. Trestle & River Road, was accomplished under Contract No. DACW05-76-C-0105 by Carl J. Wood during the period from 11 October 1976 to 24 December 1976. Specification No. 5133, Drawing No. 50-4-5170.

p. Bank sloping, stone protection and selective clearing on the right bank of the

Sacramento River at Site Miles 72.1, 75.9, 76.4, 77.1, 77.4 and 77.9 (of Unit 30) was accomplished under Contract No. DACW05-76-C-0107 by James Ferry & Son. Construction was completed on 6 July 1979. Specification No. 5081, Drawing No. 50-4-5130.

q. Bank sloping, stone protection and selective clearing on the right bank of the Sacramento River at Site Miles 71.0, 73.2, 74.1, 74.6, 75.0, 75.5, 76.0, and 78.1 (a portion of Unit 34) was accomplished under Contract No. DACW05-78-C-0046 by Claude C. Wood. Construction was completed on 7 November 1979. Specification No. 5403, Drawing No. 50-4-5433.

r. Emergency repairs to project levees on the left bank levee of the Yolo Bypass in RD 785, RD 827 and RD 1600, were accomplished under Contract No. DACW05-84-C-0119 by Sybon and Reid, Inc. Specification No. 7219, Drawing No. 50-4-5718.

s. Emergency repairs to project levees on the Yolo Bypass left bank levee – reclamation District 1600, were accomplished under Contract No. DACW05-84-C-0127 by Sybon & Reid, Inc. Specification No. 7256, Drawing No. 50-4-5722.

t. Bank sloping, stone protection and selective clearing on the right bank of the Sacramento River at Site Mile 80.6 (a portion of Unit 38A) was accomplished under Contract No. DACW05-84-0112 by Aloha Dredging Co. Construction was completed on 6 October 1985. Specification No. 7053. Drawing No. 50-4-5712.

u. Bank sloping, stone protection and selective clearing on the right bank of the Sacramento River at Site Miles 71.2, 72.1, 76.0, and 76.9 (a portion of Contract 38B) was accomplished under Contract No. DACW05-86-C-0079. Specification No. 7082, Drawing no. 50-4-5714.

v. Bank sloping, stone protection and selective clearing on the East Levee of the Yolo by-pass at Site Mile 54.1L (a portion of Contract 43) was accomplished under Contract No. DACW05-88-B-0055. Specification No. 8367, Drawing No. 50-4-5798.

w. Emergency repairs to project levees along the right bank of the Sacramento River, RD 1600 and Sutter Bypass, RD 1500, was completed on 21 October 1980 under Contract No. DACW05-80-C-0114. Specification No. 5954, Drawing No. 50-4-5561.

x. Emergency repairs to project levees consisting of restoration of portions of the left bank of Yolo Bypass in Reclamation Districts 537, 785, 827 and 1600, right bank of the Sacramento Bypass, and right bank of the Sacramento River in RD 1600 was completed on 17 November 1986 under Contract No. DACW05-86-C-0113. Drawing No. 50-4-5776.

y. Bank protection and levee enlargement on the right bank of the Sacramento River at Site Mile 80.7 was completed on 15 September 1967 under Contract No. DA-04-167-CIVENG-66-50. Specification No. 3154, Drawing No. 50-4-4004.

z. Bank erosion repair on both banks of the project levees of the Sacramento River mile 72.2 right was completed by DD-M Crane & Rigging on 5 November 2008, under Contract No. W91238-06-C-0018, Specification No. 1534, Drawing No. 50-04-6245.

1-05. Flood Flows. For the purposes of this manual, the term “flood” or “high water period” for the Sacramento River portion of this unit shall refer to flows when the water surface in the river reaches or exceeds the reading of 34.5 on the State Division of Water Resources continuous water stage recorder and staff gage located about 200 feet north of the east end of Fremont Weir. Such term for the Yolo Bypass portion of this unit shall refer to flows when the water surface in the by-pass reaches or exceeds a reading of 35.0 on the continuous water stage recorder and staff gage of the State Division of Water Resources, U.S. Geological Survey and U.S. Army cooperative station located about 500 feet westerly from the west end of Fremont Weir. Both gages set on U.S. Corps of Engineers datum.

1-06. Assurances Provided by Local Interests. Assurances 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 State Reclamation Board. Responsibility for operating and maintaining portions of this unit were officially accepted by the Reclamation Board of the State of California on 5 January 1944, 6 June 1951 and 16 December 1952, as shown on the attached letter of acceptance, Exhibit F. A portion of the west levee of the Sacramento River from mile 81.7 to mile 76.5 was transferred to the State Reclamation Board by letter of 8 December 1951, as shown on the attached letter of transfer 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. Levees.

a. Description. The levees described in this manual are located along the westerly side of the Sacramento River from the east end of Fremont Weir downstream about 10.9 miles to the south boundary of Reclamation District No. 1600 at the Elkhorn Ferry crossing. Also along the easterly side of Yolo By-Pass from the east end of Fremont Weir downstream about 6.8 miles to the south boundary of Reclamation District No. 1600 at the Woodland Highway crossing. All levees of this unit were originally built by local interests. The east levee of Yolo-By Pass was rebuilt to adopted grade and section by new construction. Portions of the west levee of the Sacramento River have been rebuilt by new construction. For more complete detail of items included in construction of above mentioned levees, reference is made to the "As Constructed" drawings of Exhibit B. Structures affecting levee maintenance are listed in Exhibit E.

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

- (1) Maintenance – paragraph 4-02 of Standard Manual.
- (2) Check Lists – Exhibit E of this Supplement Manual.
- (3) Operation – Paragraph 4-04 of 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 levees are listed as follows:

River Mileage	Size and Kind of Pipe	Other Structure Description	Elev. of Invert at Pipe
<u>West Levee Sacramento River (See Dwgs. 6-13-1540 & 6-13-573 of Exhibit B)</u>			
81.5	24" Steel	Pumphouse and gate R.S.	38.2
80.7	18" Steel	" "	31.0
78.6	30" Steel	" "	42.4
77.3	24" Steel		39.9
77.0	18" Steel	Pump R. S.	39.0
76.6	18" Steel		22.5
76.2	18" Steel	Pump R. S.	40.5
75.6	18" Steel	Pump R. S.	38.9
75.2	20" Steel	Gate L. S.	25.3
74.2	18" Steel	Pumphouse R. S.	35.2
73.5	10" Concrete	Abandoned	39.2
73.4	18" Steel		41.3
72.2	12" Steel	Pump and gate R. S.	30.0
71.9	14" Steel	" "	16.8
71.4	7" Steel	Pump R. S.	41.4
71.0	14" Steel	Pump and gate R. S.	27.2
70.9	5'X7' Concrete	Slide gate R. S.	15.9

East Levee of Yolo By-Pass (See Dwg. 50-4-1310 of Exhibit B)

Location Station	Size and Kind of Pipe	Other Structure Description	Elev. of Invert at Pipe
382+85	2-48" C.M.P.	Slide gate R.S.	16.2
354+50	1-48" Steel		12.5
	2-36" Steel	Pumphouse and gate L.S.	22.0
	1-24" Steel	R.D. 1600 Pumping Plant	22.0
155+00	6'X6' Concrete	Slide gate R.S.	14.5

Notes on abbreviations:

- C.M.P. = Corrugated Metal Pipe
- L. S. = Landside
- R. S. = Riverside
- R. D. = Reclamation District

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

- (1) Maintenance - paragraph 5-02 of the Standard Manual.
- (2) Check Lists - Exhibit E of this Supplement Manual.

- (3) Operation - paragraph 5-04 of the Standard Manual.
- (4) Additional Requirements - paragraph 5-05 of the Standard Manual.
- (5) Safety Requirements - paragraph 5-06 of the Standard Manual.

2-03. Channels.

a. Description. The main channel of the Sacramento River from Fremont Weir to the south boundary of Reclamation District No. 1600 at the Elkhorn Ferry crossing is confined between levees along both banks and has a project design capacity of 107,000 cubic feet per second. When flood waters exceed the carrying capacity of the Sacramento River, water flows over Fremont Weir into Yolo By-Pass channel which is leveed along both banks and has an average width of about 8,000 feet within this unit. The project design capacity of Yolo By-Pass is 343,000 cubic feet per second.

Since the channel of the Sacramento River from Fremont Weir to mile 70.8 is utilized for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channel of the Sacramento River shall be limited to flood control and the requirements of paragraphs which follow shall be observed only to that extent.

The floodway of the Yolo By-Pass from the Fremont Weir to the Woodland Highway crossing shall be inspected, maintained and operated as outlined below.

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 34.5 on the gage located on the east end of Fremont Weir or a reading of 35.0 on the gage located on the west end of Fremont Weir as indicated in paragraph 1-05 of this manual. The Superintendent

shall dispatch a message by the most suitable means to the District Engineer whenever the water surface at Fremont Weir reaches the gage readings indicated above. The Superintendent shall cause readings to be taken at said gages at intervals of two to four hours during the period when the water surface is above the flood-flow stages indicated above and record the time of 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 existed in conjunction with, the protective works, and which might affect their functioning, include the following:

(1) Fremont Weir located across upper end of Yolo By-Pass.

(2) Sacramento Northern Railroad bridge trestle across Yolo By-Pass near the southerly end of this unit.

(3) Elkhorn Ferry crossing the Sacramento River at the southerly end of this unit.

(4) Utility Relocations. Because of the nature of the construction of the levees by local interests, no records of any utility relocations are available.

(5) Hydrographic Facilities.

(a) A Division of Water Resources continuous stage recorder and staff gage located about 200 feet north of the east end of Fremont Weir. This gage to be maintained by the State of California.

(b) A continuous water stage recorder and staff gage located about 500 feet westerly from the west end of Fremont Weir. This gage to be maintained by the State of California and 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.

2-05. Environment Protection.

a. Vegetation left during construction on the waterside berm or slope above the bank protection shall not be removed under normal maintenance. Dead trees with wildlife value will be retained except where they are a hazard to existing flood control works. *revised Nov. 1983

The following and USFWS B.O. #81420-2008-F-0805-1 within Exhibit I pertain to the repair sites at Sacramento River RM 72.2R,

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 of Combating Floods. 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)

EXHIBIT “B”

“AS CONSTRUCTED”

DRAWINGS

See separate folder for the following drawings:

<u>FILE</u>	<u>TITLE</u>
6-13-1540	Sacramento River, Knights Landing to Fremont Weir, Sheet 3.
6-13-573	Sacramento River, Sacramento to Vernon, Sheets 1 to 5 inclusive.
50-4-2897	Sacramento River, Surface Levee Crown for Patrol Road Purposes, Sheets 1 and 3
50-4-1310	Enlargement of East Levee of Yolo By-Pass along Reclamation District No. 1600, Sheets 1 and 2.
50-4-1583	Levee and Road Approaches – East Levee of Yolo By-Pass Below Fremont Weir – RD No. 1600, 1 sheet.
50-4-2143	Enlargement of East Levee of Yolo By-Pass from Fremont Weir South 2 Miles, Sheets 1 and 2
50-4-2254	Levee and Bank Protection – East Levee Yolo By-Pass below Fremont Weir, 1 Sheet
50-4-3315	Emergency levee repairs, east levee Yolo Bypass RD 1600, in 2 Sheets
50-4-3323	Emergency levee repairs, right bank Sacramento River, RD 1600 approximately 8 miles upstream from Elkhorn Ferry, in 1 sheet
50-4-3332	Emergency Levee repair and reconstruction, right bank Sacramento River approximately 1.4 miles downstream from Fremont Weir in RD 1600, in 1 sheet
50-4-3613	Stone Protection downstream from Fremont Weir, right bank Sacramento River, in 3 sheets
50-4-3696	Levee Construction, Left Bank Yolo Bypass, Vicinity of Fremont Weir, in 3 sheets
50-4-3742	Bank Protection, Right and Left Banks at Various Sites from Bover’s Bend to Monument Bend, in 16 sheets.
50-4-4078	Bank Protection Various Locations Right and Left Banks Sacramento River and Feather River, in 29 Sheets
50-4-4310	Bank Protection Various Locations Right and Left Banks Sacramento River between Tisdale Weir and Sacramento, in 26 sheets.
50-4-4381	Bank Protection Various Locations Right and left Banks Sacramento River between Miles 81.0 and 144.0, in 20 sheets.
50-4-4713	Bank Protection, Various Locations Right and Left Banks, Sacramento River Mile 60.0 to Mile 111.0, in 20 sheets.
50-4-5170	Bank Protection, Bypass Levee Revetment East Levee, Yolo Bypass, in 3 sheets.

50-4-5130	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 60.0 to Mile 110.0, in 41 sheets.
50-4-5433	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 61.0 to Mile 102.0, in 33 sheets.
50-4-5718	Yolo County, California, Emergency Levee Repairs, East Bank Yolo Bypass, RD 1600, 827 and 785, in 1 sheet.
50-4-5722	Emergency Levee Repairs, West Bank RD 1500, East Bank RD 1600, in 1 sheet.
50-4-5712	Bank Protection, Unit 38A, Right and Left Banks, Sacramento River Mile 80.0 to Mile 193.0, in 31 sheets.
50-4-4694	Landscape Plantings, Spec No. 4067, Contr. No. 71-C-0107, Site Mi. 71.5R & 71.9R.
50-4-5714	Bank Protection, Contract 38B, Right and Left Banks, Sacramento River Mile 62.6 to Mile 117.7, in 57 sheets.
50-4-5798	Bank Protection, Contract 43, Right and Left Banks, Feather River, Colusa Basin Drain, Yolo and Sutter By-pass, in 35 sheets.
50-4-6245	Bank Protection, Phase II, Sacramento River Emergency Erosion Control Sites, Sac RM 72.2R, in 17 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. 123

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

Item	Remarks
(a) Location by Station	
(b) Settlement, sloughing, or loss of grade	
(c) Erosion of back slope	
(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 Completing 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. 123

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 the 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, fouling of the tainter gates, or the bridges over the channel.
- Item (d) Report any construction along the diversion channel or above the diversion channel or above the diversion works 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 or 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.

Instructions for Completing Sheet 6, Exhibit E
(To be printed on the back of sheet 6)

- (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," spaces, 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
LETTER 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



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:

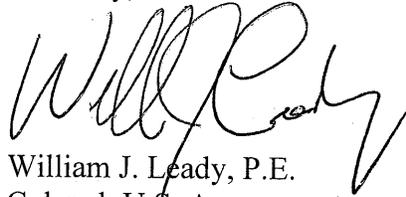
River	Site Name	O&M Manual Unit#	Drawing No.	Contract No.
Sacramento River	50.2 L	115	50-04-6118	W91238-06-C-0101
Sacramento River	51.5 L	115	50-04-6118	W91238-06-C-0101
Sacramento River	72.2 R	123	50-04-6245	W91238-06-C-0018
Sacramento River	99.3 R	130	50-25-6248	W91238-06-C-0019
Sacramento River	177.8 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.

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*

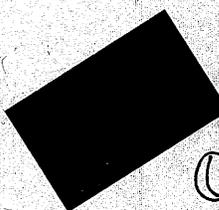
PERLEA *MP*

FONTAINE *JA*

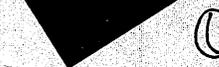
for POEPPELMAN *RFM*

CATINE *for ST*

COOK *DC*

 CONLEY *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

THE RECLAMATION BOARD

1416 Ninth Street, Room 455-6
Sacramento, CA 95814
(916) 445-9454



MAR 27 1990

Colonel Jack A. Le Cuyer
District Engineer
Sacramento District
U. S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814-4794

Dear Colonel Le Cuyer:

Reference is made to your letter of November 22, 1989, concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract 43 to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at the following sites:

1. Site Mile 51.1, Right Bank, Feather River.
2. Site Mile 8.5, Left Bank, Colusa Basin Drain
3. Site Mile 54.1, Left Bank, Yolo Bypass
4. Site Mile 64.0, Right Bank, Sutter Bypass

The sites were completed on November 14, 1989. The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5798, Specification No. 8367, and Contract No. DACW 05-88-C-0063, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of December 15, 1989, formally accepted the completed work on the above referenced sites from the District Engineer for operation and maintenance.

If you have any questions concerning the above, please contact me at the above address or call Richard Goodnight at (916) 445-9335.

Sincerely,

A handwritten signature in cursive script, appearing to read "Raymond E. Barsch".

RAYMOND E. BARSCH
General Manager

*Units 1231
12911321/52*

*Copies to VRO
C.D. HOLMAN*

November 22, 1989

Navigation and Flood Control Unit

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

done

Members of the Board:

This is in regard to the joint inspection of November 14, 1989, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 43) to the State of California for operation and maintenance. The flood control work consists of bank sloping, placement of stone protection and miscellaneous work on the Feather River right bank at Site Mile 51.1; Colusa Basin Drain left bank at Site Miles 8.5; Sutter Bypass right bank at Site Mile 64.0 and Yolo Bypass left bank at Site Mile 54.1.

The sites were completed on November 14, 1989, in accordance with Contract Number DACW05-88-C-0063, Specification Number 8367 and Drawing Number 50-4-5798.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), 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 November 14, 1989 to the State of California for operation and maintenance.

11-20
ROMPALA/mt
[Signature]
KELLY
[Signature]
A. SMITH

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 123, 129, 132 and 152, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

[Signature]
HELM
[Signature]
FAST
[Signature]
DENNIS
[Signature]
MASON

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

Sincerely,

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

DWR, ATTN: G. Snow; DWR, ATTN: G. Qualley; Cdr, SPD, ATTN: CESP-D-0;
~~Cdr~~, USACE, ATTN: DAEN-CECW-OM

Le CUYER

PC#LTRUNIT43

*Units
123, 129,
132, 152*

02

November 30, 1987

Navigation and Flood Control Unit

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

Members of the Board:

This is in regard to the joint inspections of November 24 and 25, 1987, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 38B), to the State of California for operation and maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River's right bank at Site Miles 62.6, 70.2, 71.2, 72.1, 76.6, 76.9, 89.8 (two sites on the left and right banks below Colusa Basin Outfall) and 98.7, and left bank at Site Miles 78.2, 101.5 and 105.5.

The work was completed on November 15, 1987, in accordance with Contract Number DACW05-86-C-0079, Specification Number 7082 and Drawing Number 50-4-5714. A 100-foot section of bank protection was deleted on the right bank at Site Mile 62.6 to accommodate a water intake facility for the City of West Sacramento.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), and Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), 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 November 25, 1987 to the State of California for operation and maintenance.

orig lost

*Units 116, 122, 123,
124, 127, 128,
130*

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 116, 122, Part-1, 123, 124, 127, 128 and 130, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

(1145)

ROMPALA/mt

Copies Furnished:

KELLY

DWR, ATTN: G. Snow
DWR, ATTN: G. Qualley

A. SMITH

cc:

Commander, South Pacific Division, ATTN: CESP-D-0
Commander, USACE, ATTN: DAEN-CECW-OM
Flood Control Unit
Civ Des Sec D (Pahl)
Prog Dev
F&A Br
Valley Res Ofc (dupe)
C-0 Div
Reading

HELM

FAST

DENNIS

CZARZASTY

SCHOLL

WANG #8856a

*Units 116, 122, 123,
124, 127, 128, 130*

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 15, 1987

Navigation and Flood Control Unit

The Reclamation Board
State of California
1410 - 9th Street, Room 433-6
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to project levees under authority of Section 2 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 64th Congress, 1st Session). The work was completed on November 17, 1986, and consisted of restoring portions of the Yolo Bypass left bank levee in Reclamation Districts 537, 785, 827 and 1000, the Sacramento Bypass right bank levee and the Sacramento River right bank levee in Reclamation District 1000 in accordance with Contract Number SACRUS-86-C-0113 and Drawing Number 50-4-5776. This work shall 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 amendment to the Operation and Maintenance Manual, Supplement Numbers 116, 122 and 123, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

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

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

Copies furnished:

Commander, South Pacific Division, AFHQ: SPMCO-0
DNR, AFHQ: J. Angel
DNR, AFHQ: G. Snow

8/1-20
ROMPALA/th

RAC
KELLY

A. SMITH

HELM

FAST

DENNIS

McCOLLAM

SCHOLL

WANG #6286a

not
Units 116,
122, 123

SACRO RIVER LEVEE R&B IN RD 1000

Goodnight

MAR 3 1986

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

Dear Colonel Scholl:

Reference is made to your letter of November 27, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 38A to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 94.0, 96.6, 127.5, and 128.5, Left Bank, and 80.6 and 99.2, Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5712, Specification No. 7053, and Contract No. DACW 05-84-C-0012, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of December 20, 1985, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance.

If you have any questions concerning the above, please contact Mr. Richard Goodnight at (916) 445-9335.

Sincerely,

Original signed by
Robert L. Manning

for

RAYMOND E. BARSCH
General Manager

bcc: Gene Snow
Robert Bailey

RRGoodnight:pva

*Units 123, 128, 130,
134*

November 27, 1983

Navigation and Flood Control Unit

**The Reclamation Board
State of California
1416 - 9th Street, Room 453-6
Sacramento, California 95814**

Members of the Board:

This is in regard to the joint inspection of November 14, 1983 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 38A), to the State of California for Operation and Maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 94.0, 96.6, 127.5 and 128.5 and right bank at Site Miles 80.6, 99.2, and 134.6. These sites were completed during the past construction season in accordance with Contract Number DACW05-84-C-0112, Specification Number 7033 and Drawing Number 30-4-5712.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (Pl. 86-649, July 14, 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 November 20, 1983 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, Supplement Numbers 123, 128, 130, 134, and 137 Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

ROHPALA/jb

KELLY

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

HELM

FAST

Copy Furnished:

DWR, ATTN: M. Luttrupp
DWR, ATTN: D. Naixner
Commander, South Pacific Division, ATTN: SPDCO-0
Commander, USACE, ATTN: DAEN-CWO-0

SCHOLL

cc: Flood Control Unit
Div (Civ Des Sec D (Pahl)
Div
F&A Br
Valley Res Ofc
C-O Div

VERES
CAMPBELL
PAHL
FILE



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

REPLY TO
ATTENTION OF

November 28, 1984

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 project levees 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 2, 1984, and consisted of restoring the Yolo Bypass left bank levee in Reclamation District 1600, and the Sutter Bypass right bank levee in Reclamation District 1500, in accordance with Contract Number DACW05-84-C-0127 and Drawing Number 50-4-5722. This work shall 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 amendment to the Operation and Maintenance Manual, Supplement Numbers 123 and 129, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Albert E. McCollam, Jr.
Lieutenant Colonel, Corps of Engineers
Acting District Engineer

Copies Furnished:

Commander, South Pacific Division, ATTN: SPDCO-0
DWR, ATTN: M. Luttrupp

EXHIBIT F



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

REPLY TO
ATTENTION OF

November 14, 1984

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 project levees 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 2, 1984, and consisted of restoring the left bank levee of the Yolo Bypass in R.D. 785, R.D. 827 and R.D. 1600, in accordance with Contract Number DACW05-84-C-0119 and Drawing Number 50-4-5718. This work shall 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 amendment to the Operation and Maintenance Manual, Supplement Numbers 122 and 123, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

Arthur E. Williams
Colonel, Corps of Engineers
District Engineer

Copy Furnished:

Commander, South Pacific Division, ATTN: SPDCO-0
DWR, ATTN: M. Luttrupp

SPKCO-0

4 November 1980



The Reclamation Board
1416-Ninth Street, Room 335-18
Sacramento, CA 95814

Gentlemen:

You are hereby notified that the Corps of Engineers has completed emergency repairs on two project levees under authority of Section 5 of the Flood Control Act of 18 August 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on 21 October 1980 and consisted of repair of the project levees along the right bank of the Sacramento River, R.D. 1600 and Sutter Bypass, R.D. 1500 in accordance with Contract No. DACW05-30-C-0114, Drawing No. 50-4-5561 and Specification No. 5954. This work shall 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 amendment to the Operation and Maintenance Manual, Supplement Numbers 123 and 129, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

MC ANDY
ROMPALA/bc

A. SMITH

Sincerely,

PAUL F. KAVANAUGH
Colonel, CE
District Engineer

PROBASCO
KAVANAUGH

Copy furnished:
X DWR, ATTN: R. Franson

cc:
Ops Br
SPDCO-0
Engineering Division (Levees & Channels - Nolan)
Valley Res. Office

max

Units 123, 129

**DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD**

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



JAN 09 1980

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

Dear Colonel Kavanaugh:

The Reclamation Board at its regular meeting of December 14, 1979, authorized me to accept the completed flood control work from the Corps of Engineers. This work is a portion of Unit No. 34 of the Sacramento River Bank Protection Project. The work was transferred to the State of California by your letter of December 14, 1979.

The flood control work was constructed in a workmanlike manner and in conformance with File No. 50-4-5433, Specification No. 5403, and Contract No. DACW05-78-C-0046, insofar as could be determined visually, at Sites Miles 71.0, 73.2, 74.1, 74.6, 75.0, 75.5, 76.0, 78.1 Right Bank, and 77.8, 78.4 Left Bank, Sacramento River.

Sincerely,

Handwritten signature of Eldon E. Rinehart in blue ink.

ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



Units 123, 124
Copy to field
4 Eng's
12-1-80

file Sac River Bank Prot transfer file

SPKCO-0

16 July 1979

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

done

Gentlemen:

This is in regard to the joint inspection of 14 July 1979 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project, Unit 30, along the right bank at Site Miles 70.4, 72.1, 75.9, 76.4, 76.9, 77.1, 77.4, and 77.9. The sites described on the inclosure were completed on 14 July 1979 in accordance with Contract No. DACW05-76-C-0107, Specification No. 5081 and Drawing No. 50-4-5130. The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, and now meets the requirement of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto, is transferred as of 14 July 1979 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, Supplement No. 122 Part 1 & 123, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely,

Wait
WAIT/rp

McPride
MCPRIDE

DONALD M. O'SHEI
Colonel, CE
District Engineer

A. Smith
A. SMITH

1 Incl
As stated

Copy furnished:
DWR,ATTN: R. Franson
DWR,ATTN: D. Meixner
OCE
SPD

HELM
HELM

cc:
>Ops Br (Flood Control)
Valley Res Ofc
Eng Div (lev & chan)
Prog Dev Br
F&A (Kalal)

PROBASCO
PROBASCO
O'SHEI
O'SHEI

Unit 122/123

*file to Prager
8/1/79
20-7-79*

Summary of Sacramento River
 Bank Protection Project
 Portion of Unit 30
 Sacramento River Right Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L. F.</u>
70.4	3+00 to 13+55	1055
72.1	6+55 to 15+50	895
75.9	30+00 to 35+90	590
76.4	0+50 to 5+00	450
76.9	56+90 to 58+60	170
77.1	45+10 to 48+20	310
77.4	30+75 to 34+50	375
77.9	5+96 to 12+36	640

4485

Unit 122, 123

Encl 1



C
O
P
Y

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

C
O
P
Y

REPLY TO
ATTENTION OF

SPKCO-0

14 December 1979

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

Gentlemen:

This is in regard to the joint inspection of 6 December 1979 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 34), 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 right bank at Site Miles 71.0, 73.2, 74.1, 74.6, 75.0, 75.5, 76.0, and 78.1 and left bank at Site Miles 77.8 and 78.4. The sites described in the inclosure were completed on 6 December 1979 in accordance with Contract No. DACW05-78-C-0046, Specification No. 5403 and Drawing No. 50-4-5433.

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 6 December 1979 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. 123 and 124, 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 34

PAUL F. KAVANAUGH
Colonel, CE
District Engineer

Copy furnished:
DWR,ATTN: R. Franson
DWR,ATTN: D. Meixner

EXHIBIT F

**SUMMARY OF SACRAMENTO RIVER
BANK PROTECTION PROJECT
PORTION OF UNIT 34**

SACRAMENTO RIVER RIGHT BANK

Site Mile	Stone Protection	L.F.
71.0	STA. 63+00 to 69+00	600
73.2	STA. 168+00 to 178+00	1000
74.1	STA. 120+60 to 129+00	840
74.6	STA. 100+00 to 108+00	800
75.0	STA. 79+00 to 90+00	1100
75.5	STA. 45+00 to 53+00	800
75.0	STA. 26+00 to 31+00	500
78.1	STA. 0+00 to 2+30	598
	STA. 8+00 to 11+67.8	

SACRAMENTO RIVER LEFT BANK

77.8	STA. 68+00 to 74+50	650
78.4	STA. 35+50 to 42+00	650

DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD1416—9th Street, Room 335-18
Sacramento, CA 95814
(916) 445-9454

December 14, 1976

Colonel Donald M. O'Shei
Sacramento District
U. S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814

Dear Colonel O'Shei:

Refer to: SPKCO-0

At its regular meeting of December 10, 1976, the Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of the Sacramento River Major and Minor Tributaries Flood Control Project. The flood control work was transferred to the State of California by your letter of November 18, 1976.

The flood control work consisted of levee bank sloping and placement of stone bank protection at two sites on the East Levee of Yolo By-Pass, Yolo County.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5170, Specification No. 5133, and Contract No. DACW 05-76-C-0105, insofar as could be determined visually.

Sincerely,

A handwritten signature in blue ink that reads "Paul L. Clifton".

PAUL CLIFTON
General ManagerCERTIFIED MAIL
RETURN RECEIPT REQUESTED*Units 116/123**sent copies to ... Valley
12 Dec 76*

transfer

SPRGO-0



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

Gentlemen:

Reference is made to the joint inspection of 17 November 1976, made for the purpose of transferring a portion of the Sacramento River Major and Minor Tributaries Flood Control Project to the State of California for operation and maintenance. This work consists of shaping the levee slope and placement of rock revetment at two sites on the Yolo Bypass east levee, Yolo County.

The work, as listed and described on the inclosure, was completed on 12 November 1976 in accordance with Specification No. 5133, Contract No. SACR05-76-C-0105, Drawing No. 39-4-5179.

The work was performed under the general authority of the Flood Control Act of 22 December 1944 (Public Law 534, 78th Congress, 2nd Session) 10 U.S.C. 2304(a)(1) and now meets the requirements of the Sacramento River Major and Minor Tributaries Flood Control Project. Therefore, said work, together with the waterway banks contiguous thereto, are transferred as of 12 November 1976 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 Nos. 116 and 123, Sacramento River Flood Control Project, and furnished to your office at a later date.

Sincerely yours,

DONALD M. O'SHEI
Colonel, CE
District Engineer

ROBERT D. CREMER, JR.
Lieutenant Colonel, CE
Deputy District Engineer

JK
ROMPALA/pl

JK for
McBRIDE

JK
A. SMITH

JK
HEMSON

JK
PROLASCO

JK
CREMER

JK
O'SHEI

*Um 15/11/76
123*

*copy to
Kenny
25-7-76*

cc: Flood Control Unit
Valley Res Ofc
Engr Div (Levee & Chan)
(Prog Dev Br)
F&A (Kalab)

✓ Incl
As stated

Copy furnished:
✓ MR, ATTN: R. Francon & Robert Potter

✓ OCE
✓ SPD

SUMMARY OF PORTION OF SACRAMENTO RIVER
MAJOR & MINOR TRIBUTARIES PROJECT
YOLO BYPASS EAST LEVEE (LEFT BANK)

SITE	STONE PROTECTION	L.F.	SITE DESCRIPTION
1	0+48 to 2+60	212 [±]	Located just upstream from S.N.R.R. Trestle & River Road in R.D. 1600
2	1+50 to 3+10	160 [±]	Located about 0.5 Mile upstream from Interstate 804 in R.D. 900

Units 116, 123

20 May 1974

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

done

Gentlemen:

Reference is made to the joint inspection of 16 May 1974, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 24), to the State of California for operation and maintenance. This portion of flood control work consists of levee and bank sloping, and placement of stone bank protection on the Sacramento River left bank at Site Miles 77.4, 77.6 and 78.5 and right bank at Site Miles 73.1, 74.7, 75.7, 100.7 and 101.7. The sites, as listed on the enclosure, were completed on 16 May 1974 in accordance with Specification No. 4169, Contract No. DACW05-73-C-0038, Drawing No. 50-4-4713.

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 20 May 1974 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, Supplements Nos. 123, 124 and 130 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

F. G. ROCKWELL, JR.
Colonel, CE
District Engineer

1 Incl
As stated

Copy furnished:
DWR, ATTN: John Wright and Carl King
OCE
SPD

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

W
ROMPALA/dc
Redac

W
COLEMAN
[Signature]
HENSON

[Signature]
MAGUIRE
[Signature]
POTAMOS

K
ROCKWELL
h

*Units 1231
1241130*

Valley
F & A (Jones)

Engr (Lev & Chan)
Engr (Prog Dev)

cc:

SUMMARY OF PORTION OF SACRAMENTO RIVER
BANK PROTECTION UNIT NO. 24

Sacramento River Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
77.4	60+15 to 72+00	1185
77.6	49+60 to 56+00	640
78.5	4+00 to 12+00	800
		<u>2625</u> <i>OK</i>

Sacramento River Right Bank

73.1	176+00 to 181+21	521
*74.7	87+25 to 99+00	1175 <i>— see records show 1120</i>
75.7	34+00 to 44+00	1000
100.7	19+22 to 23+00	378
101.7	14+65 to 24+00	935
		<u>4009</u> <i>OK</i>

*Extended upstream 75'±
20'

Total 6634 *OK*

Units 123, 124, 130

C
O
P
Y

THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
O
P
Y

17 January 1972

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

Refer to : 4130.60.205

Dear Sir:

Reference is made to your letter of December 27, 1971, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 20, to the State of California for operation and maintenance.

The flood control work completed at Site Miles 93.2, 94.7, 97.6, 102.7 Left Bank and Site Miles 81.0, 84.6, 89.3, 96.8, 101.4 Right Bank of the Sacramento River was constructed in accordance with Drawing No. 50-4-4381, Specification No. 3459, and Contract No. DACW05-71-C-0051, with the exception of the reinstallation of the irrigation pumping plants located at Site Mile 93.2, Stations 37+75 and 46+85, Site Mile 94.7, Station 45+92, Site Mile 102.7, Station 20+10 all on the Left Bank, and Site Mile 96.8, Station 8+56, on the Right Bank.

The Reclamation Board, at its regular meeting of January 14, 1972, formally accepted the completed portions of work on the above-referenced sites from the District Engineer for operation and maintenance. The work accepted consists of levee enlargement, rock toe wall and stone bank protection. Not accepted were the five irrigation pumping plants located at the above-referenced sites and stations. Reinstallation of the pumps is still in progress and the above-noted pump sites will be accepted upon satisfactory completion of this work.

The Reclamation Board, at the same meeting, transferred the completed portions of work on the above-referenced sites to the following maintaining agencies for operation and maintenance:

Reclamation District No. 1500

Site Miles 93.2, 94.7, 97.6 and 102.7 Left Bank, Sacramento River

Reclamation District No. 1600

Site Mile 81.0 Right Bank, Sacramento River

Sacramento River West Side Levee District

Site Miles 96.8 and 101.4 Right Bank, Sacramento River

State Maintenance Area No. 6 (DWR)

Site Miles 84.6 and 89.3 Right Bank, Sacramento River.

Sincerely yours,

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

EXHIBIT F

27 December 1971

Valley Res Ofc

F & A (Jones)

Engr(Prog Dev)

cc: Engr(Lev&Channs)

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

Gentlemen:

Reference is made to the joint inspection of 8 December 1971 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 20), to the State of California for operation and maintenance.

The flood control work consists of bank sloping, placement of stone bank protection and levee enlargement on the Sacramento River left bank at Site Miles 93.2, 94.7, 97.6 and 102.7, and right bank at Site Miles 81.0, 84.6, 89.3, 96.8 and 101.4. The work was completed on 8 December 1971 with the exception of the installation of pumps at Site Miles 93.2 left, 94.7 left, 102.7 left, and 96.8 right, in accordance with Specification No. 3459, Contract No. DACW05-71-C-0051, and Drawing No. 50-4-4381.

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 27 December 1971, to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operations and Maintenance Manual, Supplements Nos. 123, 127, 128 and 130. Copies will be furnished your office at a later date.

Sincerely yours,

Units 123, 127, 128, 130

JAMES H. HIGMAN
Lieutenant Colonel, CE
Acting District Engineer

1 Incl
Summary

Copy furnished:
DWR, J. Wright & C. King
HQDA (DAEN-CWO); SPD

RC
ROMPALA/jmc
itl

COLEMAN

HENSON

HART

HIGMAN

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION PROJECT

UNIT NO. 20, SACRAMENTO RIVER

RIGHT BANK:

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOEWALL</u>	<u>L.F.</u>	<u>LEVEE ENLARGEMENT</u>	<u>L.F.</u>
101.4	0+00 to 15+00	1500			10+00 to 13+00	300
96.8	4+00 to 9+65	565				
89.3	3+00 to 17+72	1472				
84.6	0+00 to 1+00)		0+00 to 1+00)			
	19+56 to 30+91)	1235	29+25 to 30+91)	266		
			20+50 to 27+00	650		
81.0	19+00 to 20+09 Bk)					
	20+00AH to 34+93)	1702				
	0+00 to 1+00)					

6474

LEFT BANK:

102.7	1+00 to 3+09 Bk)					
	3+10AH to 22+89)	2188				
97.6	38+00 to 49+00	1100				
94.7	27+40 to 60+00	3260				
93.2	30+00 to 55+85	2585				

9133

Total 15607

Units 123, 127, 128, 130

28 September 1970

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

Gentlemen:

Reference is made to the joint inspection of 23 September 1970, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #16), to the State of California for operation and maintenance.

83.45

The flood control work consists of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles^v 61.0, 89.6, 95.4 & 95.6, and right bank at Site Miles 70.4, 71.5, 71.9, 77.0, 77.85, ~~83.45~~, 84.5 & 96.8. A list covering the completed work is inclosed. The work was completed on 23 September 1970 in accordance with Specification No. 3390, Contract No. DACW05-70-C-0008, Drawing No. 50-4-4310.

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 23 September 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, Supplements Nos. 122, 123, 124, 127, 128 & 130, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES H. HIGMAN
Lieutenant Colonel, CE
Acting District Engineer

1 Incl (in dupe)
as stated

Copy furnished:
DWR, ATTN: John Wright

OCE
SPD

cc: Engr-Lev&Chan; Engr-Prog Dev; Valley; F&A(Cordano)

WAIT/pp

COLEMAN

HENSON

HIGMAN

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 122, 123, 124, 127, 128, 130.

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT - UNIT 16, SACRAMENTO

LEFT BANK

<u>SITE MILE</u>	<u>LEEVE SETBACK STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>	<u>STONE TOE WALL STATION</u>	<u>L.F.</u>
61.0			34+00 to 43+00	900	34+00 to 35+40	140
89.6			0+00 to 5+00	500		
95.4			10+00 to 18+00	800		
95.6			0+00 to 6+57	657		

RIGHT BANK

70.4			-0+25 to 1+00	125	-0+25 to 1+00	125
71.5			45+00 to 64+00	1900	51+80 to 52+20	40
					59+30 to 60+83	153
71.9			34+00 to 41+00	700		
77.0			166+00 to 172+00	600		
77.85			130+00 to 133+00	300		
83.45			491+61 to 481+93	968		
84.5			0+00 to 7+45	745	1+78 to 5+90	312
96.8	9+00 to 16+00	700	9+00 to 15+00	600		

83.45 ←

*Units 122, 123, 124,
127, 128, 130*

C
O
P
Y

THE RECLAMATION BOARD
State of California

C
O
P
Y

January 10, 1968

4130.60.203

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

Dear Sir:

Reference is made to your letter of December 12, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit 12, Site Mile 147.55, left bank and Site Mile 79.5, right bank, in accordance with Specification No. 3288.

The Reclamation Board, at its meeting of January 5, 1968, 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

12 December 1967

SPIKCO-F

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

Gentlemen:

Reference is made to the joint inspection of 8 December 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #12), to the State of California for operation and maintenance.

The flood control work consisting of bank sloping and placement of stone bank protection on Sacramento River at Site Mile 147.55, left bank and Site Mile 79.5, right bank is listed on the attached inclosure. The work was completed on 15 November 1967, in accordance with Specification No. 3288, Contract No. DACW05-68-C-0014, Drawing No. 50-4-4078.

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.

The flood control work now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred 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 Nos. 123 & 155, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG
Colonel, CE
District Engineer

✓ 1 Incl
as stated

✓ Copy furnished:
Dept Water Resources

✓ O.C.E.

✓ S.P.D.

cc: Engr-Lev & Chan; Engr-ProgDev; Valley; F&A (Cordano)

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

ROMPAIA/P

COLEMAN

HANSON

YOUNG

Units 123, 155

To AGICK HUNAN
12 DEC 67 JK

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT
PORTION OF UNIT #12

<u>LEVEE MILE</u> <u>SITE MILE</u>	<u>STONE PROTECTION</u> <u>STATION</u>	<u>LINEAL FEET</u>	<u>ROCK TOE WALL</u> <u>STATION</u>	<u>LINEAL FEET</u>
Right Bank: 79.5	33+00 to 56+00	2300	-	-
Left Bank: 147.55	17+00 to 28+00	1100	20+40 to 21+10 23+40 to 25+00	70 160

201
156
W.M.F.

THE RECLAMATION BOARD

ROOM 1335, RESOURCES BUILDING, 1416 9TH STREET • SACRAMENTO 95814



OCT 25 1967

4130.60.302

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

Dear Sir:

Reference is made to your letter of October 2, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 8, Site Mile 80.7, right bank, in accordance with Specification No. 3154.

The Reclamation Board, at its meeting of October 20, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A. E. McCOLLAM
General Manager

JHMacC:pa

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Unit 123

1007
OCT 25 1967

2 October 1967

SPKKO-F

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

Gentlemen:

Reference is made to the joint inspection of 28 September 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection Work, (Unit #8), to the State of California for operation and maintenance.

The flood control work consisted of 697 feet of levee enlargement, 260 feet of stub levee and placement of 1357 feet of stone bank protection on the right bank of the Sacramento River at Site Mile 80.7. The work was completed on 15 September 1967, in accordance with Specification No. 3154, Contract No. DA-04-167-CIVENG-66-50, Drawing No. 50-4-4004.

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.

This completed flood control work now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operations and Maintenance Manual, Supplement No. 123, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG
Colonel, CE
District Engineer

ROPAIA/pp

COLEMAN

HENSON

MEADE

MEADE

Copy furnished:

Dept Water Resources
OCE & SPD

cc: Lev&Chan-Engr;
Prog Dev-Engr;
Valley
F&A (Cordano)

CERTIFIED MAIL

RETURN RECEIPT REQUESTED to Alicia H. 6 OCT 1967

Unit 123

MEADE
12

THE RECLAMATION BOARD
STATE OF CALIFORNIA

9 ^{Nov} ~~May~~ 1964

Refer to: 7001.60.201
4130.60.201

District Engineer
Corps of Engineers
U. S. Army
P. O. Box 1739
Sacramento, California - 95808

Dear Sir:

Reference is made to your letter of 21 October 1964, concerning transfer to the State of California of levee enlargement, levee setback, shaping and placement of bank protection at 11 sites from Boyers Bend to Monument Bend, Specification No. 2958, Contract No. 3.

The Reclamation Board, at its meeting of November 5, 1964, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

/s/ A. E. McCOLLAM
A. E. McCOLLAM
General Manager

SPKKO-F

21 OCT 1964

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

Gentlemen:

Reference is made to the joint inspection made on 16 October 1964, of flood control work pertaining to the Sacramento River Bank Protection Project for the purpose of transferring this work, upon completion, to the State of California for operation and maintenance.

The flood control work, designated as Contract No. 3, consisting of levee enlargement, levee setback, shoring and placement of bank protection at 11 locations from Boyers Bend to Monument Bend as listed on the attached inclosure, was completed on 16 October 1964, in accordance with Specification No. 2958, Contract No. DA-04-167-CIVENS-64-71 and Drawing No. 50-4-3742.

The flood control work as described on the attached inclosure now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood control works, together with the waterway banks contiguous thereto are transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operations and Maintenance Manual, Supplement Nos. 123, 127, 128 and 130, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT E. MATHE
Colonel, CE
District Engineer

COLEMAN/PP

THOMPSON

HART

MATHE

1 Incl
Summary Sheet

Copy furnished:
Dept Water Resources
O.C.E.
S.P.D.

cc: Lev & Chan, Prog Dev, Valley Res, F&A

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 123, 127, 128, 130
To Office 20 OCT 64

OPERATIONS BRANCH
FLOOD CONTROL SECTION

64-71

SUMMARY OF LEVEE UNITS CONSTRUCTED - RIGHT AND LEFT BANKS - SACRAMENTO RIVER
BOYERS BEND TO MONUMENT BEND

LEVEE UNIT SITE MILE	LEVEE ENLARGEMENT	LINEAL FEET	LEVEE SETBACK	LINEAL FEET	STONE PROTECTION	LINEAL FEET	RIGHT OR LEFT BANK
81.35	4+00 to 20+00	1,600	-----	-----	1+00 to 20+00	1,900	Right
85.7	-2+65 to 10+00	1,265	-----	-----	-1+00 to 9+00	1,000	Right
86.5	-----	-----	-----	-----	2+00 to 8+80	680	Left
86.8 ✓	-----	-----	-----	-----	4+75 to 6+50	175	Right
89.4 ✓	-----	-----	-----	-----	9+85 to 21+50	1,165	Left
92.85 ✓	-----	-----	-----	-----	1+00 to 7+65	665	Left
99.3 ✓	-----	-----	1+50 to 12+00	1,050	2+00 to 10+75	925 875	Left
99.75 ✓	-----	-----	-----	-----	2+25 to 17+65 (90° Forward Tangent)	1,650	Left
101.25 ✓	-----	-----	-----	-----	4+00 to 12+00	800	Left
103.25	4+00 to 8+50 18+17 to 23+44	450 527	----- -----	----- -----	4+00 to 23+44	1,944	Left
103.35	-----	-----	1+00 to 13+00	1,200	2+00 to 12+00	1,000	Right

Units 123, 127, 128, 130

THE RECLAMATION BOARD

October 1, 1963

Refer to: 7001.70.201

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

Gentlemen:

Reference is made to your letter of September 5, 1963, concerning transfer to the State of California of levee stabilization and levee road work on the left levee of Yolo Bypass in the vicinity of Fremont Weir, designated as item 49H in the Supplement to the Memorandum of Understanding on the Sacramento River Flood Control Project, Specification No. 2771.

The Reclamation Board, at its meeting of September 19, 1963, formally accepted the above referred to levee stabilization and patrol road work for operation and maintenance.

Sincerely yours,

A. E. McCOLLAM /s/
A. E. McCOLLAM
General Manager

Supplement #1

SPIGO-C

5 September 1963

The Reclamation Board
State of California
1215 "O" Street
Sacramento 14, California

Gentlemen:

Reference is made to the joint inspection made on 3 September 1963 of flood control work on a unit of the Sacramento River Flood Control Project for the purpose of transferring it to the State of California for operation and maintenance. Reference is also made to Supplement dated 29 November 1957 to Memorandum of Understanding entered into with the State of California under date of 30 November 1953, covering added items of work required to complete the Sacramento River Flood Control Project.

The flood control work consisting of levee stabilization and asphalt spray treatment of levee road on the left levee of Yolo Bypass in the vicinity of Fremont Weir, designated as Item 49-h in the above referenced Supplement, was completed on 29 August 1963, in accordance with Specification No. 2771, Contract No. DA-04-167-CIVENG-63-61, and Drawing No. 50-4-3696.

The foregoing supplemental work having been completed to current standards for the Sacramento River Flood Control Project, is hereby transferred to the State of California for operation and maintenance. A manual for this portion of the project has already been furnished which adequately covers operation and maintenance requirements for the above item.

A copy of this letter is being transmitted to the Department of Water Resources.

Sincerely yours,

REGISTERED

RETURN RECEIPT REQUESTED

Copy furnished:
Dept Water Res. ✓
OCE ✓
SPD ✓

cc: Engr Div-Lev & Channels ✓
Engr Div-Prog Dev Br ✓

ROBERT E. MATHE
Colonel, CE
District Engineer
C. R. TEAGLE
Lt Col, CE
Deputy District Engineer
Northern Area Ofc. ✓

Unit 128

LYK
9/4/63
KRISTOF/pp

[Signature]
THOMPSON

[Signature]

MATHE

Item 49h

STANLEY W. KRONICK, SACRAMENTO
PRESIDENT
GROVER SHANNON, YUBA CITY
VICE PRESIDENT
J. J. MADIGAN, CHICO
SECRETARY

EDMUND G. BROWN
GOVERNOR

MAX S. VANN, SR., WILLIAMS
WALLACE MCCORMACK, RIO VISTA
GEORGE W. NICKEL, JR., LOS BANOS
HAROLD J. O'BANION, DOS PALOS
BOARD MEMBERS
A. N. MURRAY
GENERAL MANAGER AND CHIEF ENGINEER

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA
1215 O STREET
SACRAMENTO 14, CALIFORNIA
TELEPHONE: HI 5-4711

October 7, 1960

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

Supplement #2

Dear Sir:

Reference is made to your letter of September 26, 1960, concerning the transfer to the State of the levee construction and bank revetment on the Sacramento River Flood Control Project on the levee sections listed below:

<u>SITE</u>	<u>LOCATION</u>	<u>MILE POINTS</u>
B	Right Bank, Sacramento River	81.51 to 81.70 <i>123</i>
F	Left Bank, Sacramento River	85.79 to 85.92 <i>106</i>
A-1	Right Bank, Sacramento River	120.30 to 120.74 <i>(3)</i>
A-2	Right Bank, Sacramento River	120.95 to 121.07

The Reclamation Board at its meeting of October 6, 1960, formally accepted these levee sections for operation and maintenance.

Sincerely yours,



A. N. MURRAY
General Manager and Chief Engineer

HSB:ED

Supplement #2
See also the letter
Northern River
10/15

26 SEP 1960

The Reclamation Board
 State of California
 1215 "G" Street
 Sacramento 14, California

Supplement #2

Gentlemen:

Reference is made to the second supplement dated 5 June 1958, to Memorandum of Understanding entered into with the State of California under date of 30 November 1953, covering added items of work at critical locations, required to complete the Sacramento River Flood Control Project.

The flood control work consisting of levee construction and bank revetment at four locations on the right and left banks of the Sacramento River, listed below, was completed on 19 August 1960 in accordance with Specification No. 2609, Contract No. DA-04-167-CIVERS-60-29 and Drawing No. 50-4-3613.

<u>SITE</u>	<u>LOCATION</u>	<u>MILE POINTS</u>		
B	Right Bank, Sacramento River	81.51 to 81.70	123	.19
F	Left Bank, Sacramento River	85.79 to 85.92	128	.13
A-1	Right Bank, Sacramento River	120.30 to 120.74	131	.44
A-2	Right Bank, Sacramento River	120.95 to 121.07		.12
				.88 mi

The foregoing supplemental work having been completed to current standards for the Sacramento River Flood Control Project is hereby transferred to the State of California for operation and maintenance. A maintenance manual for these sections of project levees has already been furnished which adequately covers operation and maintenance requirements for above items.

SPKGO-C
The Reclamation Board

26 SEP 1960

A copy of this letter is being transmitted to the State of California, Department of Water Resources.

Sincerely yours,

H. N. TURNER
Colonel, CE
District Engineer

Copy furnished:
Dept Water Res.
23rd & "R" Sts
Sacramento, Calif.

O.C.E.
S.P.D.

cc: Engr Div-Levees & Channels
Engr Div-Program Develop. Br.
Northern Area Office

OPERATIONS BRANCH
CHANNELS & LEVEES SECTION

Concurrences	
Originator	LHK
Date	9/23/60
Dist. Engr.	<i>[Signature]</i>
Asst. D.E. (A)	<i>[Signature]</i>
Asst. D.E. (O)	2 <i>[Signature]</i>
Exec. Asst.	<i>[Signature]</i>
Compt.	
Fin. & Acct.	
Mgmt.	
Property Office	
Service	
Constn.	<i>[Signature]</i>
Opns	
Eng'g	
R. E.	
Planl.	
Legal	
Supply	

Units 123, 128, 131

REGISTERED MAIL
Return Receipt
Requested

CdeA/rm

12/4/52

SPKKO-P 824.3 (Sac. R. F.C.B.)

4 DEC 1952

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

Gentlemen:

Reference is made to the District Engineer's letter dated 21 November 1952, wherein it was suggested that a joint inspection be made for the purpose of transferring to the jurisdiction of the State of California, when completed, four units of the Sacramento River Flood Control Project. Reference is also made to the joint inspection of these units of work which was made on 2 December 1952.

In accordance with the above, you are advised that the four levee units mentioned above, which are covered under Specification No. 1636, Drawing 50-4-2897, have been completed, as scheduled, on 29 November 1952. These units are described as follows:

a. Westerly levee of the Sacramento River:

- 123
- 348 (1) Part "D", Levee and patrol road, Station 243/25, at Elkhorn Ferry, River Mile 70.9, to Station 543/27, River Mile 76.5.
- 349 (2) Part "D", Levee and patrol road, Station 143/70, River Mile 60.75, to Station 171/00, River Mile 61.8 at Bryte's Bend State's Warehouse. 116
- 350 (3) Part "D", Levee and patrol road, Station 76/00, River Mile 59.45 at "I" Street Bridge, to Station 102/50, Mile 59.9. 116

b. Southerly levee of the American River:

- 351 Part "E", Levee and patrol road, Station 19/00 at Jibboom Street Bridge, to Station 102/55 at 16th Street Bridge at Sacramento, California. 118.1

824.3 (Sac R. F.C.P.) SPK

80



Levee Sections 348 to 351
Letter No. 40

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

The levee units referred to above, together with the patrol roads thereon, form an integral part of the Sacramento River Flood Control Project and meet with the requirements of the project. Therefore, said levee units, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

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 levee units 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.

FOR THE DISTRICT ENGINEER:

Copy furnished:
State Engineer
1120 "N" Street
Sacramento, California

cc: Office of C. of E.
So. Pac. Div. Eng.
Eng. Div.
Sacto Project Eng.
Service Section
C. deArrieta

Sincerely yours,

Earl G. Peacock
Lt. Col., Corps of Engineers
Executive Officer

Concurrence	
Originator	
Date	6.21.45 A Dec. 1945
Exec. O.	A
Exec. Asst.	
Chief Ad. Insp.	B
Asst. Ad. Insp.	
Auditor	
Bud. & Acc.	
Manag.	
Property Officer	
Sec.	
Const. Over.	
Eng'g	
R.E.	
Pers.	
Legal	
Supply	

81

Sac Riv FC Proj.
Pending Transf to
Recl. Bd.

Mrs. Thompson
[Signature]

PSKRS-P

FEB 2 1951

See also
letters dated
16 Feb. 1951. and 18 April 1951
attached.

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

Gentlemen:

Reference is made to letter from this office dated 24 March 1950 in reply to a letter from your Board dated 27 February 1950 concerning surveys to determine the status of levees in the Sacramento River Flood Control Project with a view to transferring those levees in the project that are complete to project standards. It was stated that as surveys progress it was proposed to transfer units of the project found to conform to project standards in order that the provision of State Law regarding maintenance can be placed in effect at the earliest practicable time. Reference is also made to letter dated 26 January 1951 from the Division Engineer, South Pacific Division to the Board involving the foregoing as well as other matters relative to the project.

Pursuant to the above, investigation has been made of those portions of the easterly and westerly levees of Yolo By-pass that were completed between the years 1931 to 1935 and which heretofore have not been turned over formally to your Board for maintenance in accordance with present day practices. The levees under consideration are:

- Unit No. 56A a. Easterly levee of Yolo By-pass from Minor Slough to Yolo Causeway. Covers Map Ref. No. 145-146 and 175. and 17A 113, 116
- Unit No. 57A b. Easterly levee of Yolo By-pass from Yolo Causeway to South-ern Pacific Railroad. Covers Map Ref. No. 147 116
- Unit No. 58A c. Easterly levee of Yolo By-pass from Sacramento By-pass to a point approximately 2 miles south of Fremont Weir. Covers Map Ref. No. 121-140 and 142 122, 123
- Unit No. 59A d. Westerly levee of Yolo By-pass from a point approximately 109

144 not included, why not?

Units No. 56A-57A-58A-59A and 60A.

PSKRO-P
The Reclamation Board

FEB 2 1957

1 mile north of the Yolo-Solano County line to a point approximately
 $\frac{1}{2}$ mile south of Yolano.
Covers Map Ref. No. 186-188 and portion of 185 which is between 186 and 188.

It is realized that certain features of these levees do not conform to the revision in project standards for Yolo by-pass authorized by the 1944 Flood Control Act, however, it is believed that a distinction should be made in this case between that authorization and the previous legislation known as the "Old" Sacramento Flood Control Project. Those parts of the levee that require additional construction authorized by the 1944 Flood Control Act will be completed to those standards in due course of time.

Maintenance manuals covering these units are in process of preparation and will be furnished your Board upon completion.

Accordingly, the levee units discussed herein are hereby transferred to the State of California for maintenance and operation. Acknowledgment of acceptance at an early date would be appreciated.

Sincerely yours,

G. C. HAUG
Lt. Colonel, Corps of Engineers
District Engineer

cc: W. K. South
R. W. Barsdale
Engr.
✓ R. H. Thompson

O. C. E.
Div, Engr.

C
O
P
Y

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

February 28, 1944

Secretary, California Debris Commission
Wright Building
Sacramento 14, California

Dear Sir:

Reference is made to your letter of October 18, 1943, transmitting plans and specifications for the east levee of the Yolo Bypass from Fremont Weir southerly 2 miles, and turning over said levee section to the State for maintenance.

Enclosed is copy of a Resolution adopted by the Board on January 5, 1944, accepting said levee unit as completed for maintenance by the State. - - - - -

Very truly yours,

THE RECLAMATION BOARD
A. M. BARTON
Chief Engineer and General Manager

/s/By G. F. Mellin
G. F. MELLIN

NOTE: Only item pertaining to Operation and Maintenance Manual No. 123 is included in the above copy.

R E S O L U T I O N

Accepting for Maintenance and operation certain item of work of "New Construction" under the Sacramento River Flood Control plan as completed by the War Department, U. S. Army, Corps of Engineers.

- - - - -

WHEREAS, the Reclamation Board did heretofore approve of a certain item of work of "new construction" (said work consisting of the raising, widening, and strengthening of existing levee and the construction of a new levee, and certain incidental construction work), to be performed along the east levee of the Yolo Bypass from Fremont Weir southerly two miles; and

WHEREAS, the War Department, U. S. Army, Corps of Engineers, and the California Debris Commission, under date of October 18, 1943, has notified the Reclamation Board of the completion of such work of "new construction" and of its desire to turn over to The Reclamation Board such work as completed for maintenance by local interests; and

WHEREAS, the Chief Engineer of the Reclamation Board has caused to be made inspections on the ground of such work of "new construction", and has found and determined that such work, as completed, has been prosecuted and carried out in conformance with the plans and specifications therefor as heretofore approved by said Board; Now, Therefore, be it;

RESOLVED and ordered that The Reclamation Board does hereby accept for maintenance and operation the said item of work of "new construction" as aforesaid, which has on the date hereinabove set forth, been turned over to said Board by the War Department, U. S. Army, Corps of Engineers, and the California Debris Commission.

Dated: January 5, 1944

- - - - -

STATE OF CALIFORNIA)
COUNTY OF SACRAMENTO) ss
Office of The Reclamation Board)

I, George H. Holmes, Secretary of The Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution passed and adopted by said Board at its meeting held January 5, 1944.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board, this 19th day of January 1944.

(s) George H. Holmes
GEORGE H. HOLMES
Secretary
The Reclamation Board

C
O
P
Y

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

June 12, 1951

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

Dear Sir:

Reference your letters of February 2, 1951, February 5, 1951 and February 16, 1951, requesting the Reclamation Board's acceptance of the following sections of completed Sacramento River Flood Control levees and in which you transferred to the State for maintenance and operation the first four units listed:

Easterly levee of Yolo Bypass from Sacramento Bypass to a point approximately 2 miles south of Fremont Weir.

The Reclamation Board at its meeting June 6th accepted said levees for maintenance by the State of California, under the following terms and conditions:

That the acceptance of said levees is on the understanding that the present standard of those levees are the standards existing prior to the 1944 Flood Control Act, and with the further understanding that such of the levees as require additional construction to meet the authorization under the 1944 Act, will be completed to those standards in due course of time.

Yours very truly,
THE RECLAMATION BOARD
A. M. BARTON
Chief Engineer and General Manager

By /s/ S. A. Honaker
S. A. HONAKER
Assistant Secretary

NOTE: Only item pertaining to Operation and Maintenance Manual No. 123 is included in the above copy.

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THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

January 8, 1953

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

Dear Sir:

Reference your letter, File No. SPKKO-P 824.3 (Sac. R.F.C.P.)
dated 4 December 1952.

The Reclamation Board at its meeting December 16, 1952, accepted,
on behalf of the State of California, the levee units herein described,
and their contiguous waterway banks, for operation and maintenance.

a. Westerly levee of the Sacramento River.

(1) Part "D", levee and Patrol Road, Station 243+25, at
Elkhorn Ferry, River Mile 70.9, to Station 543+27, River Mile 76.5.

(2) - - - - -

Yours very truly,

THE RECLAMATION BOARD
A. M. BARTON
Chief Engineer and General Manager

By /s/ D. M. Carr
D. M. CARR

NOTE: Only item pertaining to Operation and Maintenance Manual No. 123
is included in the above copy.

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Registered Mail
Return Receipt
Requested

SPKKA 824.3 (Sac.Riv.F.C.P.)

8 December 1951

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

Gentlemen:

Reference is made to your letter of 22 June 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. ----- .
- b. ----- .
- c. Westerly levee of the Sacramento River.
 - (1) ----- .
 - (7) Mile 76.5 to Mile 81.7 (East End Fremont Weir).
 - (8) ----- .

The levee covered by items a, b(4), c(1), c(3), c(5), c(6), c(7), c(9), c(10), c(13), c(15), d(2), e, f(1), f(2), f(4), f(6), j, k, n(4), n(5), s(2), s(3), t, u, and v, above although complete has not been formally transferred as contemplated by the project documents. 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,

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

NOTE: Only item pertaining to Operation and Maintenance Manual No. 123 is included in the above copy.

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

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____) Unit No. 123 of the Sacramento River Flood Control Project, the west levee of the Sacramento River and the east levee of Yolo Bypass within Reclamation District No. 1600 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 periods (water level at 34.5 on the gage at the east end of Fremont Weir and 35.0 on the gage at the west end of Fremont Weir) occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevations</u>
_____	_____
_____	_____
_____	_____

Comments on the behavior 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 level 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

**DEPARTMENT OF WATER RESOURCES
RECLAMATION BOARD**

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



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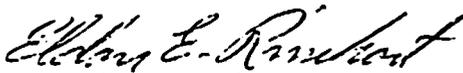
Colonel Paul F. Kavanaugh
District Engineer
Sacramento District
U. S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814

Dear Colonel Kavanaugh:

The Reclamation Board at its regular meeting of July 20, 1979, formally accepted the completed flood control work which was transferred to the State of California by your letter of July 18, 1979. This work is a portion of Unit No. 30 of the Sacramento River Bank Protection Project.

The flood control work was constructed in a workmanlike manner and in conformance with File No. 50-4-5130, Specification No. 5081 and Contract No. DACW05-76-C-0107, insofar as could be determined visually, at Sites Miles 70.4, 72.1, 75.9, 76.4, 76.9, 77.1, 77.4 and 77.9 Right Bank, Sacramento River.

Sincerely,


ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



EXHIBIT F

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DEPARTMENT OF WATER RESOURCES
STATE OF CALIFORNIA

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December 14, 1976

Colonel Donald M. O'Shei
Sacramento District
U.S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814

Dear Colonel O'Shei:

Refer to: SPKCO-0

At its regular meeting of December 10, 1976, the Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of the Sacramento River Major and Minor Tributaries Flood Control Project. The flood control work was transferred to the State of California by your letter of November 18, 1976.

The flood control work consisted of levee bank sloping and placement of stone protection at two sites on the East Levee of Yolo By-Pass, Yolo County.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5170, Specification No. 5133, and Contract No. DACW 05-76-C-0105, insofar as could be determined visually.

Sincerely,

/s/ Paul L. Clifton
PAUL L. CLIFTON
General Manager

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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May 30, 1974

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

Refer to: 4130.60.206

Dear Sir:

The Reclamation Board at its regular meeting of May 24, 1974, formally accepted the completed flood control work from the District Engineer for operation and maintenance. The completed work is a portion of the Sacramento River Bank Protection Project, Unit No. 24, and includes those sites referred to in your May 20, 1974 letter.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 77.4, 77.6, and 78.5 Left Bank and 73.1, 74.7, 75.7, 100.7 and 101.7 Right Bank, Sacramento River.

The flood control work was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawings Nos. 50-4-4713, Specification No. 4169, and Contract No. DACW05-73-C-0038, insofar as could be determined visually.

Sincerely yours,

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

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DEPARTMENT OF WATER RESOURCES
STATE OF CALIFORNIA

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October 2, 1970

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

Subject: 4130.60.204
Your Contract 70-C-0008
Sacramento River Bank Protection
Project, Unit No. 16

Dear Sir:

Reference is made to the precompletion inspection of a portion of the above referenced project made on September 23, 1970.

The work sites inspected were as follows:

Site Mile 61.0, Left Bank, Sacramento River
Site Mile 70.4, Right Bank, Sacramento River
Site Mile 71.5, Right Bank, Sacramento River
Site Mile 71.9, Right Bank, Sacramento River
Site Mile 77.0, Right Bank, Sacramento River
Site Mile 77.85, Right Bank, Sacramento River
Site Mile 84.5, Right Bank, Sacramento River
Site Mile 96.8, Right Bank, Sacramento River
Site Mile 83.45, Left Bank, Sacramento River
Site Mile 89.6, Left Bank, Sacramento River
Site Mile 95.4, Left Bank, Sacramento River
Site Mile 95.6, Left Bank, Sacramento River

The work appeared to be completed in an acceptable manner and, insofar as could be determined visually, in conformance with the plans and specifications for the project. No deficiencies were noted.

Sincerely yours,

/s/ Clyde E. Shields
Clyde E. Shields, Chief
Construction Branch
Division of Design and Construction

EXHIBIT F

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

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____) Unit No. 123 of the Sacramento River Flood Control Project, the west levee of the Sacramento River and the east levee of Yolo Bypass within Reclamation District No. 1600 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 periods (water level at 34.5 on the gage at the east end of Fremont Weir and 35.0 on the gage at the west end of Fremont Weir) occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevations</u>
_____	_____
_____	_____
_____	_____

Comments on the behavior 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 level 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 Barsch, 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");

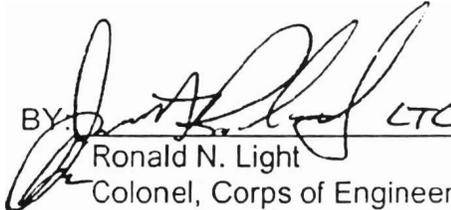
WHEREAS, the original agreement terms failed to reference a number for the lineal feet of river bank authorized by the statute for inclusion in the project,

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.

Scott R. Morgan
Attorney for the Reclamation Board

CERTIFICATION REGARDING LOBBYING

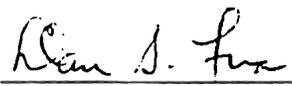
The undersigned certifies, to the best of his or her knowledge and belief that:

(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:

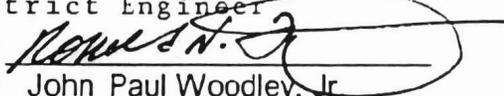
5. In fulfilling the obligations set forth in paragraph 1 of this Agreement, the following conditions and procedures shall apply to a State offer to accelerate its contribution of funds to the Government:

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."

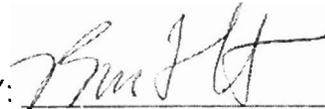
4. All other terms and conditions of the Agreement, as previously amended, remain unchanged.

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

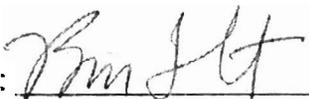
The undersigned certifies, to the best of his or her knowledge and belief that:

(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.

(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: 
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 72.2R,

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.