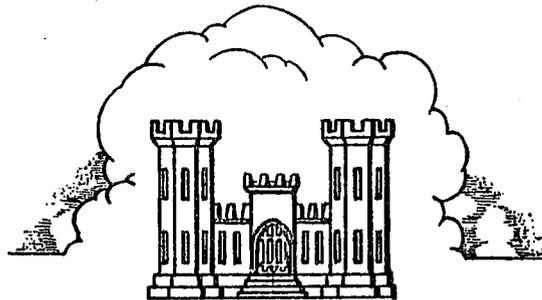


**SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL
SACRAMENTO RIVER
FLOOD CONTROL PROJECT**

UNIT No.140

**WEST LEVEE OF SACRAMENTO RIVER
IN LEVEE DISTRICT No.1
(MILE 170.5 TO MILE 184.7)**



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

End 120

CORPS OF ENGINEERS
U. S. ARMY

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

UNIT NO. 140
WEST LEVEE OF SACRAMENTO RIVER
IN LEVEE DISTRICT NO. 1
(MILE 170.5 TO MILE 184.7)

Sacramento District
Corps of Engineers
U. S. Army
May 1960

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

UNIT NO. 140

WEST LEVEE OF SACRAMENTO RIVER
IN LEVEE DISTRICT NO. 1
MILE 170.5 TO MILE 184.7

LOCATION	ADDITION OR REVISION	DATE
1-04	Add subparagraph f.	Dec 1975
Exhibit B	Add drawing no. 50-4-4912	Dec 1975
Exhibit F	Add copy of letter of acceptance dated 11 Feb 1974	Dec 1975
1-04	Add subparagraph g.	Sep 1977
2-05	Add subparagraph a & b (page 5a)	Sep 1977
Exhibit B	Add drawing no. 50-4-4892	Sep 1977
Exhibit F	Add copy of letter of acceptance dated 18 Aug 1976	Sep 1977
1-04	Add subparagraph h.	Nov 1983
Exhibit B	Add drawing no. 50-4-5438	Nov 1983
Exhibit F	Add copy of letter of transfer dated 10 Dec 1981	Nov 1983
1-04	Add subparagraph i.	Sep 1990
Exhibit B	Add Drawing No. 50-4-5758	Sep 1990
Exhibit F	Add copy of letter of transfer dated 3 Dec 1951	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1951	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Apr 1952	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 25 Feb 1953	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 23 Feb 1960	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Dec 1973	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 3 Aug 1976	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 31 Dec 1981	8 Mar 2011
1-04	Add subparagraph j.	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 23 Oct 1985	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 3 Mar 1986	8 Mar 2011
1-04	Add subparagraph k.	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 22 Dec 1986	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 20 Feb 1987	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 21 Dec 1987	8 Mar 2011
1-04	Add subparagraph l.	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 7 Dec 1988	8 Mar 2011
Paragraph 1-04	Add subparagraph m.	Jan 2012
Exhibit B	Add drawing no. 50-04-6280	Jan 2012
Exhibit H	Create Exhibit H: Local Cooperation Agreement	Jan 2012
1-02	Authorization paragraph. Add Flood Control Act 1960	Jan 2012

LOCATION	ADDITION OR REVISION	DATE
2-05	Add subparagraph c, d, e, f & g	Jan 2012
Table of Contents	Update Table of Contents	Jan 2012
Exhibit F	Letter of Transfer	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 B	Add drawing no. 50-04-5723	Jul 2012
Exhibit B	Add drawing no. 50-04-5758	Jul 2012
Exhibit B	Add drawing no. 50-04-5803	Jul 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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B	"As Constructed" Drawings -----	Unattached
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SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER FLOOD CONTROL PROJECT
UNIT NO. 140

WEST LEVEE OF SACRAMENTO RIVER
IN LEVEE DISTRICT NO. 1

SECTION I – INTRODUCTION

1-01. Location. – The improvement covered by this manual is that part of the Sacramento River Flood Control Project levee located on the right bank of the Sacramento River within levee District No. 1 from the South boundary of Levee District No. 1 (Glenn County) to the upper end of the Project. The location by river mileage is from about mile 170.5 to mile 184.7. In general, the area lies between the towns of Glenn and Ord Bend, Glenn County, California. Location of the completed unit covered by this manual is shown on Exhibit A-1 and drawings of Exhibit B.

1-02. Project Works - The project works 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 1928, 1937, 1941, 1944 ,1955 and 1960, and consists of the westerly levee (right bank of the Sacramento River from the south boundary of Levee District No. 1 upstream about 12.44 miles to the upper end of the project at Ord Bend. For more details of the above, see the drawings of Exhibit B.

1-03. Protection Provided. – The levee of this unit provides direct protection to adjacent highly developed agricultural lands, related homes and buildings, county and state highways. The grade of the adopted floodplain in the Sacramento River varies from elevation 100.1 at the south boundary of Levee District No. 1 to elevation 122.8 at the upper end of the project. The levee grade is three feet or more above the adopted design floodplain and the project design flood capacity is 160,000 cubic feet per second within this unit.

1-04. Construction Data and Contractor. Construction contracts required to bring locally built levees within this unit to project standards and to construct new levees were as follows:

a. Levee construction along the west levee of the Sacramento River from Princeton to Glenn was accomplished under Contract No. W-1105-eng-2864 by Frederickson Bros., contractors, and completed on 26 July 1941. Drawing 50-4-1711-2.

b. A break in the west levee of the Sacramento River at mile 171.4 was repaired under Job Order No. 597 and completed on 1 June 1940. Drawing 50-4-1776.

c. Levee construction along the west levee of the Sacramento River from Glenn to Sidds Landing was accomplished under Contract No. w-04-167-eng-118 by Earl Parker and N.M. Ball & Sons, contractors, and completed on 9 January 1944.

d. Surfacing of levee crown for patrol road purposes in the vicinity of Glenn, California was accomplished under Contract No. DA-04-167-eng-828 by Browne & Krull, contractors, during the period from 16 July 1952 to 2 December 1952. Spec. 1636, Drawing 50-4-2897.

e. Levee construction along the right bank of the Sacramento River from Sidds Landing to Ord Bend was accomplished under Contract No. DA-04-167-CIVENG-59-65 by L.A. & R.S. Crow, contractors, during the period from 3 November 1958 to 16 October 1959. Spec. 2457, Drwg. 50-4-3327.

f. Emergency bank protection (Public Law 84-99 authority) on the right bank of the Sacramento River at Site Mile 174.4 was accomplished under Contract No. DACW05-74-C-0035 by H. Earl Parker during the period from 30 November 1973 to 25 February 1974. Specification No. 4641, Drawing No. 50-4-4912.

g. Bank protection and selective clearing on the right bank of the Sacramento River at Site Miles 173.8, 174.4 and 177.4 (Unit No. 27) was accomplished under Contract No. DACW05-75-C-0085 by Luhr Bros. Inc. during the period from 21 July 1975 to 15 October 1976. Specification No. 4461, Drawing No. 50-4-4892.

h. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 177.3 R and 176.6 R (a portion of Unit 35) was accomplished under Contract No. DACW05-81-C-0036 by Francis Construction, Inc. Construction was completed on 18 November 1982. Specification No. 5472, Drawing No. 50-4-5438.

i. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 147.7 R, 132.4 L, 134.8 L, 135.4 L, 137.5 L, 144.2 L, 156.1 L, 159.3 L, 159.8 L. (a portion of Contract 40A) was accomplished under Contract No. DACW05-86-C-0095 by K2B Contractors, Inc. Specification No. 7875, Drawing No. 50-4-5758.

j. Bank sloping and stone protection on the right bank of the Sacramento River, Site Miles 179.4 and 188.5 was accomplished under Contract No. DACW05-85-C-0059. Specification No. 7377, Drawing No. 50-4-5723.

k. Bank sloping and stone protection on the right bank of the Sacramento River at Site Mile 179.5 was completed on 16 December 1986 and Site Miles 174.0, 176.2, 176.8 and 177.3 on 18 December 1987 under Contract No. DACW05-86-C-0095. Specification No. 7875, Drawing No. 50-4-5758.

l. Bank sloping and stone protection on the right bank of the Sacramento River, Site Mile 191.6 was completed on 14 November 1988 under Contract No. DACW05-88-C-0043. Specification No. 8366, Drawing No. 50-4-5803.

m. Bank sloping, stone protection, and erosion control vegetation on the right bank of the Sacramento River at Site Mile 177.8. Approximately 1068 feet was repaired and completed in January 2012, under Contract No. W91238-08-c-0011, Specification No. 1644, Drawing No. 50-04-6280 by Hard Rock Construction.

1-05. Flood Flows - For purposes of this manual, the term "flood" or "high water period" shall refer to flows when the water surface reaches or exceeds a reading of 89.0 on the U.S. Geological Survey and State Department of Water Resources continuous water stage recorder and staff gage located on the left bank of the Sacramento River about 200 feet upstream from the State Highway Bridge at Butte City. Such term shall also apply to flows when the water surface reaches or exceeds a reading of 110.5 on the State Department of Water Resources continuous water stage recorder and staff gage located on the right bank of the Sacramento River at Ord Ferry. An automatic short wave radio water stage broadcaster is maintained at this station. Both gages are set on U. S. Corps of Engineers datum.

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

1-07. Transfer to the State Reclamation Board – Responsibility for operating and maintaining portions of the completed work were officially transferred to the Reclamation Board by letters dated 22 July 1952 and 30 October 1959 and a portion was accepted by the State of California on 19 January 1944, as shown on the attached letters of transfer and acceptance, Exhibit F.

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

SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees -

a. Description - The levee in this unit is located as described in paragraph 1-02 of this manual and extends for a total distance along the crown for about 12.44 miles. The levee has been constructed with slopes of 1 on 3 waterside and 1 on 2 landside with a crown width of 20 feet and 40 feet on the portion of levee that is traversed by a State Highway. The necessary drainage structures, road approaches, bank protection and appurtenances were also included in the work. For more complete detail in construction of the above-mentioned levee, refer to the "As Constructed" drawings of EXHIBIT B.

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

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

2-02. Drainage and Irrigation Structures -

a. Description - Drainage and irrigation structures which extend through the levee are listed as follows:

See drawings of Exhibit B for other details.

<u>Levee Mileage</u>	<u>Size of Pipe</u>	<u>Other Description</u>	<u>Invert below Crown</u>
2.27	12"	Flap gate W.S.	10.0'
2.62	14"	pumphouse L.S.	11.0'
4.05	18"	Flap gate W.S.	7.3'
4.33	18"	Pump L.S.	8.6'
5.61	12"	Pump W.S.	6.5'
6.37	10"	Abandoned Check valve W.S.	8.3'
6.43	6"		0.8'
6.56	3-36"	Pumping plant L.S.	19.5'
6.56	48"	Pumping plant L.S.	19.0'
6.83	36"	Pump W.S.	9.0'
6.83	4-6'x.8'	Concrete culvert-4 Slant Pumps W.S.	17.8'
7.01	24"	Slant Pump and Riser unit W.S.	7.5'
8.60	12"		5.0'

Drainage and Irrigation Structures, (Cont'd)

Levee Mileage	Size of Pipe	Other Description	Invert below Crown
8.98	30"	Riser unit and Slide gate W.S.	15.0'
9.64	72"	Riser unit and Slide gate W.S.	15.0'
10.05	24"	Riser unit and Slide gate W.S.	11.0'
10.08	24"	Riser unit and Slide gate W.S.	11.0'
10.56	10"	Pump W.S.	3.7'
10.59	24"	Riser unit and Slide gate W.S.	15.0'
11.17	48"	Riser unit and Slide gate W.S.	11.0'
11.81	24"	Riser unit and Slide gate W.S.	8.5'
11.93	24"	Riser unit and Slide gate W.S.	11.0'
12.04	24"	Riser unit and Slide gate W.S.	7.0'
12.29	24"	Riser unit and Slide gate W.S.	7.0'

Note on abbreviations:

L.S. = Landside
W.S. = Waterside

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. Channel -

a. Description - The channel of the Sacramento River within this unit is confined by a levee only on the westerly side. Channel improvement has not been provided except for that incidental to obtaining borrow for construction of the levee and providing stone protection where experience has indicated the necessity to prevent erosion of the levee. The project design capacity of the channel is 160,000 cubic feet per second.

Since the channel of the Sacramento River within this unit is utilized for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channel shall be limited to flood control.

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

- Manual. (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
- Standard Manual. (4) Safety Requirements - paragraph 6-05 of the

It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood flow in excess of a reading of 89.0 on the gage near Butte City and a reading of 110.5 on the gage at Ord Ferry, 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 reaches the gage readings indicated above. The Superintendent shall cause readings to be taken at intervals of four hours during the period when the water surface is above the flood-flow stage 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 3-05 of the standard Manual.

2-04. Miscellaneous Facilities - 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) Bridges - None
- (2) Utility Relocations - None
- (3) Hydrologic Facilities -

(a) Continuous water stage recorder and staff gage located on the left bank of the Sacramento River about 200 feet upstream from the State Highway Bridge at Butte City. This gage shall be maintained by the State Department of Water Resources and the U.S.G.S.

(b) Continuous water stage recorder and staff gage located on the right bank of the Sacramento River at Ord Ferry. This gage to be maintained by the State Department of Water Resources.

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

- Manual. (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

2-05. Environment Protection.

a. Vegetation preserved as a part of selective clearing on the waterside berm or slope above the bank protection during prosecution of the contract shall not be removed as a part of normal maintenance. Dead trees with wildlife value will be retained except where they constitute a hazard to existing flood control works. * Revised September 1977

b. Consistent with the standards established in this manual and those established by the State of California, all wild growth, including but not limited to, trees, shrubs, and other vegetation within those project areas where environmental easements have been obtained by local interests shall be preserved and retained. (Reference Sites Miles 174.4 and 177.4, Right Bank, Sacramento River). * Revised September 1977

The following and USFWS B.O. #81420-2008-F-0805-1 within Exhibit I pertain to the repair sites at Sacramento River RM 177.8R,

c. 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.

d. 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.

e. 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.

f. 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.

g. 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 Department 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 Standard Manual and Maintenance Manual, revised May 1955, where the subject is fully covered.

EXHIBIT A

FLOOD CONTROL REGULATIONS
(See Standard Manual)

EXHIBIT A
Unattached

EXHIBIT “B”
“AS CONSTRUCTED”
DRAWINGS

See separate folder for the following drawings:

<u>FILE NO.</u>	<u>TITLE</u>
50-4-1711-2	West Levee Sacramento River from Princeton to Glenn, sheets 1, 5 & 6
50-4-1776	Breaks in West Levee Sacramento River at Mile 171.4 and 168.0, 1 sheet
50-4-2176	West Levee Sacramento River from Glenn to Sidde Landings, sheets 1 & 2
50-4-2897	Surfacing Levee Crown for Patrol Road Purposes, sheets 1 to 4, incl.
50-4-3327	Levee Construction, Right Bank Sacramento River, Sidde Landing to Ord Bend, sheets 1 to 20, incl.
50-4-4912	Bank Protection, Right Bank, Sacramento River Mil 174.4, in one sheet, PL 84-99
50-4-4892	Bank Protection, Various Locations, on Sacramento and Bear Rivers and Elder Creek, in 20 sheets.
50-4-5438	Bank Protection, Various Locations, Right and Left Banks, Sacramento River, Mile 110.0 to Mile 184.0, in 33 sheets.
50-4-5723	Bank Protection, Right Bank, Sacramento River, Site Miles 179.5 and 188.5.
50-4-5758	Bank Protection, Various Locations, Right and Left Banks, Sacramento River, Mile 132.4 to Mile 179.5, in 68 sheets.
50-4-5803	Bank Protection, Right Bank, Sacramento River, Site Mile 191.6
50-4-6280	Bank Protection, Lower American River & Sacramento River Erosion Repair Sites, Rivermile (Sac RM) 177.8R, in 21 sheets.

Additional drawings of cross-sections, structures and miscellaneous facilities are available in the Office of the District Engineer.

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS
(See Standard Manual)

EXHIBIT C
Unattached

EXHIBIT D

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

EXHIBIT D
Unattached

EXHIBIT E

CHECK LISTS OF LEVEES,
CHANNELS AND STRUCTURES

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

CHECK LIST NO. 2
UNIT NO. 140

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

Item	Remarks
(a) Location by Station	
(b) Settlement, sloughing, or loss of grade	
(c) Erosion of both levee slopes	
(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 gullying of the section has occurred.
- Item (c) If sufficient erosion or gullying of bank face of 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. 140

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

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

INSTRUCTIONS FOR COMPLETING SHEET 4, EXHIBIT E

(To be printed on back of sheet 4)

- Item (a) Indicate station of observation obtained by pacing from nearest reference point.
- Item (b) Note nature, extent, and size of vegetal growth within the limits of flood flow channel.
- Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, fouling of the tainter gates, or the bridges over the channel.
- Item (d) Report any construction along 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.

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 140

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Location by Levee Mileage	Bank	Debris or other obstruction to flow	Damage or settlement of pipe or conduit	Condition of concrete headwall or invert paving	Condition of right-of-way adjacent to structure	Repair Measures Taken since last Inspection	Comments
2.27	Rt.						
2.62	"						
4.05	"						
4.33	"						
5.61	"						
6.37	"						
6.43	"						
6.56	"						
6.56	"						
6.83	"						
6.83	"						
7.01	"						
8.60	"						
8.98	"						
9.64	"						
10.05	"						
10.08	"						
10.56	"						
10.59	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 140

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Levee Mileage	11.17 11.81 11.93 12.04 12.29
(b) Bank	Rt. " " " "
(c) Debris or other obstruction to flow	
(d) Damage or settlement of pipe or conduit	
(e) Condition of concrete headwall or invert paving	
(f) Condition of right-of-way adjacent to structure	
(g) Repair Measures Taken since last Inspection	
(h) Comments	

Instructions for Completing Sheet 6 and 7 Exhibit
(To be printed on back of Sheet 6 and 7)

- (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 over flow 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 TRANSFER TO
THE STATE RECLAMATION BOARD

EXHIBIT F



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

NOV 29 2016

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

Dear Ms. Gallagher:

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

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

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

Sincerely,

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

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

Enclosures

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

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

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

Standard O&M Manual San Joaquin River

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

C
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C
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RESOLUTION

ACCEPTANCE 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 at various locations along the west bank of the Sacramento River and the east side of the Cache Creek Settling Basin, said levee units particularly described in Exhibit "A" attached; and

WHEREAS, The War Department, U. S. Army, Corps of Engineers, and the California Debris Commission, under dates of January 12 and January 14, 1944, 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 items of work of "new construction" as aforesaid, which have on the dates 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 19, 1944

EXHIBIT F
Sheet 1 of 4

EXHIBIT "A"

(Attached to Resolution passed and adopted by the Reclamation Board in meeting held January 19, 1944)

LISTING OF COMPLETED ITEMS OF WORK OF "NEW CONSTRUCTION" TURNED OVER TO THE RECLAMATION BOARD BY THE WAR DEPARTMENT, CORPS OF ENGINEERS, U. S. ARMY, AND THE CALIFORNIA DEBRIS COMMISSION FOR MAINTENANCE AND OPERATION IN ACCORDANCE WITH THE TERM OF THE SACRAMENTO RIVER FLOOD CONTROL PROJECT AS OUTLINED IN SENATE DOCUMENT 23, 69th CONGRESS, 1st SESSION.

1. (By letter dated January 12, 1944)

(a) West Levee of Sacramento River, Levee Enlargement . . .
., and Part b, Glenn to Sidde Landing, approx-
imately 2.47 miles, 50-4-2176 (2 sheets)

NOTE: Only portion pertaining to Unit No. 140 contained in this copy.

C O P Y

C O P Y

SPKKO-P 824.3 (Sac. R-FCP)

22 July 1952

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

Gentlemen:

Reference is made to letter from this office dated 9 July 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, various units of the Sacramento River Flood Control Project in accordance with the procedure set forth in a letter from this office dated 12 February 1951. Reference is also made to the joint inspection of these units of work which was made on 15 July 1952.

In accordance with the above, you are hereby advised that four of the units mentioned above were completed on 21 July 1952. These completed units are described as follows:

a. Westerly Levee along the Sacramento River, Part "A" of Specification No. 1636, Drawing No. 50-4-2897, near Glenn, Glenn County, California.

- (1)
- (2) From Mile 168.0 to Mile 174.1

The completed levee units referred to above, 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 bank contiguous thereto, are hereby transferred to the State of California for maintenance and operation.

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

C
O
P
Y

C
O
P
Y
30 October 1959

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

Gentlemen:

Reference is made to the joint inspection made on 17 September 1959, of a certain levee unit pertaining to the Sacramento River Flood Control Project for the purpose of transferring it to the jurisdiction of the State of California for operation and maintenance.

The required work, consisting of levee construction, was completed on 16 October 1959 in accordance with Specification No. 2457, Contract No. DA-04-167-CIVENG-59-65 and Drawing No. 50-4-3327. This work is designated as Unit No. 645 and extends along the right bank of the Sacramento River from Sidds Landing to Ord Bend. (River Mile 177.5 to 184.7).

The levee work described above now meets the requirements of the Sacramento River Flood Control Project. Therefore, said completed levee construction together with the waterway banks contiguous thereto, is 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, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by the current issue of the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project. As provided under Paragraph 208.10 (10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work is in process of preparation and will be furnished to you upon completion.

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

Sincerely yours,

H. A. MORRIS
Colonel, CE
District Engineer

EXHIBIT F
Sheet 4 of 4



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:

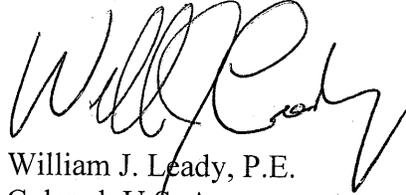
River	Site Name	O&M Manual Unit#	Drawing No.	Contract No.
Sacramento River	50.2 L	115	50-04-6118	W91238-06-C-0101
Sacramento River	51.5 L	115	50-04-6118	W91238-06-C-0101
Sacramento River	72.2 R	123	50-04-6245	W91238-06-C-0018
Sacramento River	99.3 R	130	50-25-6248	W91238-06-C-0019
Sacramento River	177.8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

CUNLEY *JA*

FAUSTINO *# 8/24/12*

MULLINS *for ST*

LEADY *W*

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



December 7, 1988

Navigation and Flood Control Unit

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

not

Members of the Board:

This is in regard to the joint inspection of December 1, 1988, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 40B) 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 Sacramento River left bank at Site Miles 187.2 and 190.7 and right bank at Site Mile 191.6.

The sites were completed on November 14, 1988 in accordance with Contract Number DACW05-88-C-0043, Specification Number 8366 and Drawing Number 50-4-5803.

JK 12-5
ROMPALA/mt

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, 1988 to the State of California for operation and maintenance.

RCK
KELLY

AS
A. SMITH

H
HELM

Final shaping and completion of the bank swallow habitat will be completed next spring and will then be transferred to the State of California for operation and maintenance.

FAST

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

DD
DENNIS

M
MASON

JK
LE CUYER

WANG #1230a
J.J

CERTIFIED MAIL
UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

Sincerely,



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

Copies Furnished:

- WDR, ATTN: G. Snow
- WDR, ATTN: G. Qualley
- Commander, South Pacific Division, ATTN: CESP-D-0
- Commander, USACE, ATTN: DAEN-CECW-OM

cc: CO Div; Flood Control Unit; Central Valley Sec; Prog Dev; F&A Br; Valley Res Ofc; Reading

Sacramento, CA 95814 4794

Unit 40

CERTIFIED

December 21, 1987

No. 78975
RETURN RECEIPT REQUESTED

Navigation and Flood Control Unit

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

not

Members of the Board:

This is in regard to the joint inspection of December 1, 1987, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 40A), 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 right bank at Site Miles 147.7, 174.0, 176.2, 176.8 and 177.3; and left bank at Site Miles 132.4, 134.8, 135.4, 137.5, 144.7, 156.1, 159.3 and 159.8.

(1145)

12-23
ROMPALA/dc

The work was completed on December 18, 1987, in accordance with Contract Number DACW05-86-C-0095, Specification Number 7875 and Drawing Number 50-4-57

RK
KELLY

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 December 21, 1987 to the State of California for operation and maintenance.

[Signature]
A. SMITH

[Signature]
HELM

[Signature]
FAST

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 134, 136, 137 and 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

[Signature]
DENNIS

cc:
Flood Control Unit
Civ Des Sec D (Pahl)
Prog Dev
F&A Br
Valley Res Ofc
>C-0 Div
Reading

Sincerely,

[Signature]
CZARZASTY

[Signature]
SCHOLL

Wayne J. Schell
Colonel, Corps of Engineers
District Engineer
DEC 21 1987
DISPATCHED

WANG #8708a

Copies Furnished:

DWR, ATTN: G. Snow
DWR, ATTN: G. Qualley
Commander, South Pacific Division, ATTN: CESP-D
Commander, USACE, ATTN: DAEN-CECW-OM

*11/17/87
134/136/137/140*

*File: Sacto R. Bank Prot. Proj
Transfer Folder*

DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD

1416 - 9th Street, Room 455-6
Sacramento, CA 95814
(916) 445-9454



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 December 22, 1986 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 40A 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 Site Mile 179.5 Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5758, Specification No. 7875, and Contract No. DACW 05-86-C-0095, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of February 20, 1987, formally accepted the completed work on the above-referenced site 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,

for Robert L. Manning

RAYMOND E. BARSCH
General Manager

*Copies to VRO
CIUDAS D*

*Clark RMB
File*

CERTIFIED MAIL RETURN RECEIPT REQUESTED

December 22, 1986

Navigation and Flood Control Unit

CERTIFIED
No. 785493
RETURN RECEIPT REQUESTED

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

not

Members of the Board:

This is in regard to the joint inspection of December 16, 1986, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 40A), 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 right bank at Site Mile 179.5.

The site was completed on December 16, 1986, in accordance with Contract Number DACW05-86-C-0095, Specification Number 7875 and Drawing Number 50-4-5758.

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 (PL99-662, 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 December 16, 1986 to the State of California for operation and maintenance.

JM 12-23
ROMPALA/jg

PK
KELLY

AS
A. SMITH

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

for
HELM

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

Sincerely,

DENNIS

MCCOLLAM

W
SCHOLL

Walter L. Cloyd III
Lieutenant Colonel Corps of Engineers
Acting Commander



WANG #6023a

Copies Furnished:

DWR, ATTN: C. Snow
DWR, ATTN: J. Angel
Commander, South Pacific Division, ATTN: SPDCO-0
Commander, USACE, ATTN: DAFN-CWO-0

Wm 7/40

LL

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 October 23, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 39 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 178.5 and 187.1, Left Bank (Sites 1 and 2), and 179.4 and 188.5, Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5723, Specification No. 7377, and Contract No. DACW 05-85-C-0059, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of January 17, 1986, 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 138, 140

6212

Clark
File

CERTIFIED
No. **782673**
RETURN RECEIPT REQUESTED

October 23, 1985

Navigation and Flood Control

The Reclamation Board
State of California
1415 - 9th Street, Room 455-6
Sacramento, California 95814

not

Members of the Board:

This is in regard to the joint inspection of October 16, 1985, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (unit 39), 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 right bank at Site Miles 179.4 and 188.5 and left bank at Site Miles 178.5 and 187.1 (Sites 1 and 2). The sites were completed during the past construction season in accordance with Contract No. DACW05-85-C-0059, Specification No. 7377 and Drawing No. 50-4-5723.

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 October 16, 1985 to the State of California for operation and maintenance.

RCK
POMALA/jb

RCK
KELLY

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 138 and 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

A. SMITH

Sincerely,

HELM

FAST

WAYNE J. SCHOLL
Colonel, CE
District Engineer

WWS
138/140

DENNIS

SCHOLL

cc:
Flood Control Unit > C-O Div
Engr Div
Civ Des Sect D (Pahl)
Prog Dev
F&A Br
Valley Res Ofc

Copy furnished: **(IF)**

DWR, ATTN: M. Luttrupp
DWR, ATTN: D. Maizner
Commander, South Pacific Division, ATTN: SPDCO-O
Commander, USACE, ATTN: DAM-CWO-O

(IF)

**DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD**

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



DEC 31 1981

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

Dear Colonel Kavanaugh:

Reference is made to your letter of December 10, 1981, concerning the transfer to the State of California for operation and maintenance, a portion of the Sacramento River Bank Protection Project, in Unit No. 35.

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 164.7, 176.6 and 177.3 Right Bank and 168.4 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5438, Specification No. 5472, and Contract No. DACW 05-81-C-0036, insofar as could be determined visually.

The Reclamation Board at its regular meeting of December 18, 1981, formally accepted from the District Engineer, for operation and maintenance, the completed work on the above-referenced sites.

Sincerely,

for ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



Units 138, 139, 140

*copy to Nolan
Valley
Ejan 2/1*



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

C
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REPLY TO
ATTENTION OF SPKCO-0

10 December 1981

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

Members of the Board:

This is in regard to the joint inspection of 4 December 1981, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 35), 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 164.7, 176.6 and 177.3 and left bank at site Mile 168.4. The sites described in the inclosure were completed on 4 December 1981 in accordance with Contract No. DACW05-81-C-0036, Specification No. 5472 and Drawing No. 50-4-5438.

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 4 December 1981 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 138, 139, and 140 Sacramento River Flood Control Project. Copies will be furnished your Board at a later date.

Sincerely,

1 Incl
As stated

PAUL F. KAVANAUGH
Colonel, CE
District Engineer

Copy furnished: w/incl
DWR, ATTN: M. Luttrupp and D. Meixner

EXHIBIT F

SUMMARY OF SACRAMENTO RIVER
BANK PROTECTION PROJECT
PORTION OF UNIT 35
SACRAMENTO RIVER

<u>SITE MILE</u>	<u>STATION</u>	<u>STONE PROTECTION L.F.</u>
177.3 right bank	8+00 to 14+50	650
176.6 right bank	42+00 to 67+00	2500
168.4 left bank	0+50 to 8+00	750
164.7 right bank	3+00 to 20+00	1700

SPKCO-0



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

done

Gentlemen:

Reference is made to the joint inspections of 29 and 30 July 1976, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 27) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 173.3, 174.4 and 177.4, Bear River left bank at Site Mile 2.6 and Elder Creek right bank at Site Mile 2.09 and left bank at Site Mile 3.83. The sites, as listed on the inclosure, were completed on 30 July 1976 in accordance with Specification No. 4461, Contract No. DACW05-75-C-0085, Drawing No. 50-4-4892.

[Signature]
ROMPALA/
ph/RI

[Signature]
MCBRIDE

[Signature]
A. SMITH

[Signature]
HENSON

The work was performed under the 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 banks contiguous thereto, is transferred as of 3 August 1976 to the State of California for operation and maintenance.

[Signature]
PROBASCO

[Signature]
O'SHEI

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 140 and 141, Part No. 2, Sacramento River Flood Control Project and Elder Creek, Sacramento River and Major and Minor Tributaries Project. Copies will be furnished your office at a later date.

Sincerely yours,

DONALD M. O'SHEI
Colonel, CE
District Engineer

*Units 140
141.2*

✓ 1 Incl
As stated

Copy furnished:
DNR, ATTN: R. Franson & Carl King

dm
cc: OCE
SPD
Engrg Div. (Levees & Channels)
Flood Control
Valley Res Ofc
(Prog Dev)
(Kalal)
& A Br

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION PROJECT,
UNIT 27

Sacramento River Right Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
173.8	2+00 to 4+00	200
	6+80 to 8+80	200
		<u>400</u>
174.4	0+00 to 5+15	515
	12+50 to 23+00	1050
		<u>1565</u>
177.4	3+00 to 7+70	470

Bear River Left Bank

2.6*	4+50 to 11+00	650
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Elder Creek Right Bank

2.09*	0+00 to 12+00	1200
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Elder Creek Left Bank

3.83	2+00 to 6+00	400
------	--------------	-----

* Extended

Unit 140, 141, 2

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
O
P
Y

August 18, 1976

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

Dear Sir:

The Reclamation Board at its regular meeting of August 13, 1976, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 27 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of August 3, 1976.

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 2.09 Right Bank and 3.83 Left Bank, Elder Creek, Site Mile 2.6 Left Bank, Bear River and Sites Miles 173.8, 174.4 and 177.4 Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4892, Specification No. 4461, and Contract No. DACW 05-75-C-0085, insofar as could be determined visually.

Sincerely,

/s/ John F. Wright
for PAUL L. CLIFTON
General Manager

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
O
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Y

February 11, 1974

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

Refer to: 4130.60.404

Dear Sir:

Reference is made to your letter of December 20, 1973, concerning the transfer of the completed emergency bank protection work in Levee District No. 1, Glenn County, to the State of California, for operation and maintenance.

The emergency bank protection work consisted of placing quarry stone protection along the right bank levee berm of the Sacramento River at Site Mile 174.4. This work was completed in accordance with Contract No. DACW05-74-C-0035, Drawing No. 50-4-4912 and Specification No. 4641, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of January 4, 1974, provisionally accepted for interim operation and maintenance the completed emergency bank protection work at the above-referenced site. It is understood that any work necessary to complete this site to normal bank protection standards will be accomplished as a portion of Unit No. 27 of the Sacramento River Bank Protection Project, Phase II.

Sincerely yours,

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

SPKCO-0

20 December 1973



F & A (Jones)

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

Jones

Valley Res Ofc

Gentlemen:

Reference is made to the completed emergency bank protection work in Levee District No. 1, Glenn County, authorized by Section 2304 (a) (1), Title 10, U.S.C. and Section 5 of the Flood Control Act of 16 August 1941, as amended (Public Law 99, 84th Congress, 1st Session).

This emergency work was completed on 19 December 1973 in accordance with Specification No. 4641, Contract No. DACW05-74-C-0035, and Drawing No. 50-4-4912. The work consisted of placing approximately 855 lineal feet of stone protection along the right bank levee berm of the Sacramento River at Six Mile 174.4. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 20 December 1973, to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation & Maintenance Manual, Supplement No. 140 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

ROMPALA/jch
itel

M. J.
COLEMAN

[Signature]
HENSON

CHRIST F. POTAMOS
Lieutenant Colonel, CE
Acting District Engineer

[Signature]
MCKINSEY
[Signature]
POTAMOS

Engr (Prog & Dev)

1 Incl
GO #5

Copies furnished:
DWR, ATTN: John Wright & Carl King

OCE
SPD

Unit 140

Engr (Lev & Chan)

cc:

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

EDMUND G. BROWN
GOVERNOR

STANLEY W. KRONICK, SACRAMENTO
PRESIDENT
GROVER SHANNON, YUBA CITY
VICE PRESIDENT
GEO. H. HOLMES, CLARKSBURG
SECRETARY
J. J. MADIGAN, CHICO
MAX S. VANN, SR., WILLIAMS
WALLACE McCORMACK, RIO VISTA
GEORGE W. NICKEL, JR., LOS BANOS

THE RECLAMATION BOARD

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

A. N. MURRAY
GENERAL MANAGER AND CHIEF ENGINEER
STANLEY MOSK
LEGAL ADVISER
HOWARD S. HITCHCOCK
ASSISTANT CHIEF ENGINEER
G. E. WALTON
SUPERVISOR ADMINISTRATIVE SERVICES
ROBERT W. JAMES
ASSOCIATE COUNSEL

February 23, 1960

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

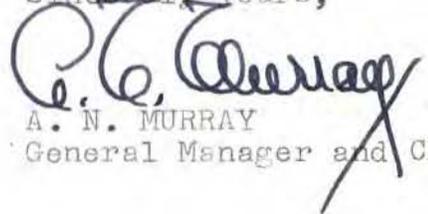
Re: File No. SKKKO-P

Dear Sir:

Reference is made to your letter of October 30, 1959, regarding transfer to the State of the completed levee work on the right bank of the Sacramento River from Sidds Landing to Ord Bend, Specification No. 2457, Contract No. DA-04-167-CIVENG-59-65.

The Reclamation Board at its meeting of February 17, 1960, formally accepted this completed section of levee for operation and maintenance.

Sincerely yours,


A. N. MURRAY
General Manager and Chief Engineer

HSH:ED

Unit 645

2/25/60

Copy sent to
Ed Brown &
Bill Johnson

Unit 140

EARL WARREN
GOVERNOR

A. R. GALLAWAY, JR., SACRAMENTO
PRESIDENT
GROVER SHANNON, YUBA CITY
VICE PRESIDENT
GEO. H. HOLMES, CLARKSBURG
SECRETARY
W. P. HARKEY, GRIDLEY
GEO. R. WILSON, WALNUT GROVE
GEO. E. LODI, ARBUCKLE
DOUGLAS B. COHEN, BANTA

A. M. BARTON
CHIEF ENGINEER AND GENERAL MANAGER
EDMUND G. BROWN, ATTORNEY GENERAL
LEGAL ADVISER
G. F. MELLIN
ASSISTANT ENGINEER AND APPRAISER
S. A. HONAKER
ASSISTANT SECRETARY

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

1100 O STREET
SACRAMENTO 14, CALIFORNIA
TELEPHONE: GI 3-4671

February 25, 1953

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

Dear Sir:

Reference your letters, File No. SPKKO-P 824.3
(Sac. R.F.C.P.) dated 9 July 1952, 15 Aug 1952 and 15
Jan 1953, wherein the following levee units were trans-
ferred to the State of California:

9 July 1952 (a) The westerly levee of the Sacramento
River (Part "A" of Spec. #1636, near
Glenn)

- 139, 140 1. From Mile 165.5 to Mile 167.5. = Unit No. 102-A = 343
- 2. From Mile 168.0 to Mile 174.1. = Unit No. 103-A = 344

(b) The easterly levee along the Sacra-
mento River (Part "B" of Spec. #1636,
near Butte City)

- 138 1. From Mile 164.4 to Mile 168.5. = Unit No. 104-A = 345
- 2. From Mile 168.9 to Mile 176.5. = Unit No. 105-A = 346

134 15 Aug 1952 Part "C" of Spec. #1636, easterly bank of
the Sacramento River from Mile 136.9 to
Mile 137.9. = Unit No. 106-A = 347

137 15 Jan 1953 Levee enlargement and bank protection along
the right bank of the Sacramento River at
Colusa Warehouse, Sta. 36782 to 42736, at
Mile 144.2. = Unit No. 124-A = 365

The Reclamation Board on behalf of the State of
California, in meeting held February 18, 1953, accepted
the above-mentioned levee units, together with their con-
tiguous waterway banks, for operation and maintenance.

Yours very truly
THE RECLAMATION BOARD
A. M. BARTON

Chief Engineer and General Manager

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

DMC:emw
cc: State Engr.

egg
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cde A
mem
em(eng)

2564
Letter No. 31

343 to 347 and 365

13

2/25/53
824.3 (Sac R.F.C.P.) SPK

EARL WARREN
GOVERNOR

A. R. GALLAWAY, JR., SACRAMENTO
PRESIDENT

GROVER SHANNON, YUBA CITY
VICE PRESIDENT

GEO. H. HOLMES, CLARKSBURG
SECRETARY

W. P. HARKEY, GRIDLEY
GEO. R. WILSON, WALNUT GROVE
GEO. E. LODI, ARBUCKLE
DOUGLAS B. COHEN, BANTA

A. M. BARTON
CHIEF ENGINEER AND GENERAL MANAGER

EDMUND G. BROWN, ATTORNEY GENERAL
LEGAL ADVISER

G. F. MELLIN
ASSISTANT ENGINEER AND APPRAISER

S. A. HONAKER
ASSISTANT SECRETARY

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

1100 O STREET
SACRAMENTO 14, CALIFORNIA

April 2, 1952

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

Dear Sir:

1. Reference is made to your letter of 3 December 1951, File SPKKA 824.3, transferring west levees of the Sacramento River and contiguous waterway banks to The Reclamation Board as follows:

- Item 6 a. Sidds Landing (Mile 177.5) to Glenn (Mile 174.1)
- Item 7 b. Opposite Packers Lake (Mile 168 to Mile 167.5)
- Item 8 c. Packers Warehouse (Mile 165.5) to Princeton (Mile 163.8)

2. The levee under Item "a" above has been accepted by The Reclamation Board. This levee and the levee from Mile 174.1 to Mile 170.8 are now maintained by the State of California under "Maintenance Area No. 2", in accord with the provisions of Sections 8400 to 8447 of the Water Code of the State of California.

3. The levees under Items "b" and "c" except for the section from Mile 164.3 to Mile 163.8 have since construction thereof and are now maintained by Glenn County Levee District No. 2, a locally organized district. This levee district is also presently maintaining the levee from Mile 170.8 to Mile 168.0 and from Mile 167.5 to Mile 165.5. The section of levee from Mile 164.3 to 163.8 is now maintained by the State of California under "Maintenance Area No. 1" established under the above sections of the Water Code.

4. The State of California is obligated and restricted by State law to maintenance of flood control works of the Sacramento River Flood Control Project.

5. The Sacramento River and its banks are used by the United States for navigation. Numerous jetties and other navigation aids are responsible for much of the present need for bank revetment. Wave wash, particularly at low water stages from navigation, has undermined banks and levees. These are a continuing source of bank deterioration and are not connected with any flood control maintenance obligation of the State.

6. Operation of Shasta Reservoir by the United States for purposes other than flood control has already caused insipient failure

Reach No. 1
Items 6 to 8

824.3(SAC.F.FCP)SFK

4/2/52

District Engineer
April 2, 1952

of many million dollars of completed flood control works. The damage caused by operation of that Reservoir in May 1948, is in the process of repair. The State has, and is cooperating with the Corps of Engineers in this repair and by legislative direction is presenting claims for this cost to the United States. Current and continuing operation of Shasta Reservoir in generation of Federal Power and transportation of water sold by the United States has changed the regimen of the streams so that bank caving, particularly in the stretches of the Sacramento River above Colusa, has materially increased. Neither Federal nor State legislation has made maintenance of river banks caused by this Federal operation, an obligation of the State.

7. The Reclamation Board on December 18, 1951, formally accepted the levee under Item "a" above, together with its contiguous waterway bank for flood control operation and maintenance.

8. The levees and contiguous banks covered in Items "b" and "c" are not formally accepted. These items do not constitute a contiguous section of work susceptible of economic maintenance. Maintenance as now performed will be carried forward. Formal acceptance will be made for flood control operation and maintenance when Federal construction obligation is complete from Mile 170.8 to Mile 164.3. The maintenance area responsible for this 6.5 miles of levee maintenance was formed under State law before any Federal participation was operative in flood control works.

Yours very truly,

THE RECLAMATION BOARD

By 
A. M. BARTON
Chief Engineer and General Manager

AMB:FK

cc: Chief of Engineers
Washington, D. C.
Division Engineer
South Pacific Division
Corps of Engineers, U. S. Army
P. O. Box 3339, Raincon Annex
San Francisco 19, California
State Engineer
Sacramento, California

Item 6 to 8

This copy was furnished on 24 Feb. 1953 B. de A.

Accepted items

December 18, 1951

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

No.	Date of Letter	Levee Location	Remarks
1-2	1 Dec. 1951	N. and S. Training* Levees Moulton Weir*	Maintained by State
3-4	Do	N. and S. Training* Levees Colusa Weir*	Maintained by State
6	3 Dec. 1951	W. Levee Sacramento River, Mile 177.5 Mile 174.1	Maintained as Maintenance Area No. 2
9	4 Dec. 1951	E. Levee Yolo By-pass Fremont* Weir to Miner Slough*	N. 2 mi. maintained by State. Remainder by local districts. Conditioned upon completion of levee section and no acceptance of banks of Sacramento Deep Water Channel.
10 11	Do	N.&S. Levees Sacra- mento By-pass*	Maintained by State. Waterward slopes on 4 to 1 not required.
21a	6 Dec. 1951	Back levee Egbert District*	Maintained by R. D. No. 536
22	6 Dec. 1951	W. Levee Yolo By-pass Lindsey* Slough to Watson Hollow Drain*	Maintained by R. D. No. 536
24	Do	N. Levee Watson Hollow Drain*	Do
16	6 Dec. 1951	W. Levee Sacramento River Mile 59.0 to Lake Wash- ington Barge Canal	Maintained by R. D. No. 900
18	Do	W. Levee Sacramento Riv. Mile 50.8 to 50.5	Bank protection contract. Maintained by R. D. No. 765

Copy to USED.

1 A

Accepted
Items

No. Date of Letter Levee Location Remarks

6 6 Dec. 1951 Levees of Wadsworth Canal* South levees of E. and W. Intercepting Canals. Maintained by State. Waterward slopes on 4 to 1 not required.
(12) (13) (14) (15)

7 7 Dec. 1951 Site 2 Part A. W. Levee Sacramento River-Mile 28.5 -Grand Island. Maintained by R.D. No. 3. Completed contract.
= 329 (87-A)

Site 1, Part B. E. levee Sacramento River-Mile 15.0 Brannan Island. Maintained by R.D.No. 2067 Completed contract.
= 331 (89-A)

8 8 Dec. 1951 W. levee Sacramento River Mile 163.8 to Mile 143.5 except 320 ft. at Colusa Warehouse & Mile 146.1 to Mile 146.4. Maintained as Maintenance Area No. 1.
(51) (52) (53) (54) (55) (56) (57)

8 Do E. levee Sacramento River, Mile 153.3 to Mile 152.7; Mile 149.9 to Mile 149.7; Mile 149.4 to Mile 149.0; at Colusa Weir; Mile 143.3 to Mile 140.2; Mile 139.3 to Mile 138.2. Maintained by State Separate completed contracts.
(58) (59) (60) (61) (62) (63)

8 Do E. levee Sacramento River Mile 138.2 to Mile 137.9; Mile 136.9 to Mile 133.8; Mile 133.2 to Mile 132.3; Mile 131.8 to Mile 125.9; Mile 125.8 to Mile 123.1; Mile 122.6 to Mile 122.0. Maintained by R.D.No. 70, Completed contracts.
(64) (65) (66) (67) (68) (69) (70)

(71) (72) (73) 8 Do West levee, Sutter By-pass* Maintained by R.D.Nos. 70, 1660, 1500. Condition upon completion of remaining part to standard section.

(74) 8 Do North levee Tisdale By-pass* Maintained by R.D.No. 1660. Waterward slope of 4 to 1 not required.

(75) 8 Do South levee Tisdale By-pass* Maintained by R.D.No. 1500. Waterward slope of 4 to 1 not required.

(76) 8 Do East levee Sutter By-pass*. Maintained by State.

(81) 9 Do W. levee Sacramento River Mile 35.15 to 35.86. Maintained by R.D.No. 150 (Merritt Island). Completed contract bank protection.

Accepted
Items

4

No.	Date of Letter	Levee Location	Remarks
(91) 10	8 Dec. 1951	Cross levee Steamboat Slough to Sacramento River.*	Maintained by R.D. No. 3 (along U.S. spoil bank).
(140) 11	Do	N. levee American River from Jibboom St. Bridge to Sacramento River.	Maintained by R.D. No. 1000.
(141) 11	Do	E. levee Sacramento River American River to Natomas Cut.	Maintained by R.D. No. 1000.
(142) 11	Do	E. bank Sacramento River At Moulton Weir.	Maintained by State.
(143) 11	Do	E. Levee Sacramento River Mile 158.5 to Mile 164.4.	Maintained partly by State; remainder by Levee District. No. 3, Glenn County, Completed Contract.
(146) 11	Do	W. levee Sacramento River Mile 61.8 to Mile 62.65.	Maintained by Maintenance Area No. 4. Completed contract.
(147) 11	Do	W. Levee Sacramento River Mile 62.65 to Mile 63.1.	Maintained by R.D. No. 537 Completed contract.
(148) 11	Do	Sacramento Weir.	Maintained by State.
(152) 11	Do	Fremont Weir.	Maintained by State.
(153) (156) (157) 11	Do	W. Levee Sacramento River Mile 87.6 to Mile 88.4; Mile 89.2 to Sycamore Slough	Maintained by R.D. No. 730 Completed contracts.
(158) 11	Do	W. Levee Sacramento River Mile 100.6 to Mile 101.4	Maintained by Sacramento River West Side Levee District. Completed contract.
(160) (161) (162) (163) 11	Do	W. Levee Feather River except: 3.31 Mi. North from Nicolaus Bridge; 1400 ft. in Yuba City; from Sta. 774+80 to Sta. 1188+00 of "Y.C.H.B" Traverse.	Maintained by Maintenance Area No. 3, Levee Dist. Nos. 1 & 9 of Sutter Co. Recl. Dist. No. 777 and State.
(164) 11	Do	E. Levee Sacramento River, Natomas Cut to Feather River	Maintained by Recl. Dist. No. 1001.
(165) (166) (167) (168) (169) (170) 11	Do	E. Levee Feather River from mouth to Mile 26.5, except from 2.37 miles of Nicolaus Bridge to Bear River	Maintained by R.D. Nos. 1001 and 784.

21
3

Accepted
Items

5

<u>No.</u>	<u>Date of Letter</u>	<u>Levee Location</u>	<u>Remarks</u>
(171) (172) 11	8 Dec.1951	Marysville levees from W.P.R.R. at Simmerly Slough E. to Yuba River and from D St. Bridge on Yuba River upstream to Valley Meat Co.	Maintained by Marysville Levee Commission.
(173) (174) 11	Do	N. Levee Simmerly Slough from W.P.R.R. to S.P.R.R. and E. Levee Feather River from Simmerly Slough upstream 4.8 miles	Maintained by R.D. No. 10 Completed contract.
(175) 11	Do	N. Levee Yuba River from back levee of Marysville upstream 1.8 miles	Maintained by Marysville Levee Commission.
(176) 11	Do	S. Levee Yuba River from S.N.R.R. to S.P.R.R.	Maintained by R.D. No. 784.
(177) 11	Do	N. Levee Bear River from Feather River to W.P.R.R. Interceptor	Maintained by R.D. No. 784.
(178) 11	Do	E. Levee R.D. 784 (W. Levee W.P.R.R. Interceptor) Bear River to intersection with W.P.R.R. in S $\frac{1}{2}$ Sec. 17, T. 14 N., R. 4 E.	Maintained by R.D. No. 784.
(179) (180) 11	Do	S. Levee American River from 16th St. Bridge to Mayhew except from S.N.R.R. to a point 800 ft. E. of W.P.R.R.	Maintained by American River Flood Control District.
(181) (182) (183) (184) (185) (186) (187) (188) 11	Do	W. Levee Yolo By-pass from Sacramento River to Putah Creek except from N. line Cache Cr. Settling Basin to S.N.R.R. & from old Willow Slough pipes south 1.48 mi.*	Maintained by State and R. D. #2035.
(190) 11	Do	N.&S. levees Willow Slough Interceptor*	Maintained by State and R. D. No. 2035.
(191) (192) 11	Do	N.&S. levees of Putah Creek	Maintained by State.
(197) (198) 11	Do	N.&S. levees Sycamore Slough from Sacramento River to Knights Landing Outfall Gates	Maintained by R.D. 730 and Sacramento River West Side Levee District.

21

4

Accepted
Items

No.	Date of Letter	Levee Location	Remarks
-----	----------------	----------------	---------

12 8 Dec. 1951

Five reaches of Ryer Island levee along Miner Slough as follows:

- a. Junction Miner and Sutter Sloughs westerly 5000 feet.
- b. From State Highway Bridge West. 3035 ft.
- c. Spec. 1473, Sta. 53+00 to 64+00 about one mi. No. of Ryde Road. *Mile 29.4 to 29.6*
- d. Spec. 1473, Sta. 0+00 to 12+00 being 600 ft. each side of Ryde Road. *Mile 30.4 to 30.6*
- e. Ryer Island cut-off levee beginning at east bank of Cache Slough and extending upstream 3,300 feet at junction of Cache and Miner Sloughs.

Maintained by R.D. No. 501. All are completed separate contracts.

Covered by letter dated 16 Nov. 1951

321 → (38) (79A)

303 Covered by letter dated 17 Nov. 1951

(53A) (54A)

(28) (50)

*No waterway banks contiguous to these levees.

REGISTERED MAIL
Return Receipt
Requested

Letter No 2

2

SPKKA 924.3(Sec. Riv. F.C.P.)

3 DEC 1951

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

Ref. Rec. Board letter of 2 April 1952
The Board accepted formally Item 6 on 18 Dec. 1951
The Board considers Items 7 and 8 are not suitable
for maintenance, because they do not constitute
a contiguous section of work.
Formal acceptance will be made of the reach from
170.8 to 164.3 when Federal obligation is completed.

Gentlemen:

Reference is made to your letter of 26 April 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 the westerly levee of the Sacramento River at the following locations:

Accepted by
Letter dated
9 March 1953

- * Letter dated 2 April 1952
- a. Sids Landing (Mile 177.5) to Glenn (Mile 174.1) 140
- b. Opposite Packers Lake (Mile 168.0 to Mile 167.5) 139
- c. Packers Warehouse (Mile 165.5) to Princeton (Mile 163.0) 137, 139

The records of this office show that on 19 January 1946 your Board accepted the levee covered by Item a. above as complete. Accordingly the waterway bank contiguous to said Item a. is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items b. and c. above although complete has not been formally transferred as contemplated by the Project documents. Accordingly the levee covered by said Items b. and c., 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

Reach No 1

Items 6 to 8

Letter No. 2

12

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

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.

Sincerely yours,

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

C. C. Haug
Colonel, Corps of Engineers
District Engineer



EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

EXHIBIT G

COPY

COPY

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

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

(1 May 19__)
 (1 Nov 19__)

Dear Sir:

The semi-annual report for the period (1 May 19__ to 31 October 19__)
 (1 November 19__ to 30 April 19__ Sacramento River Flood Control Project,
 Unit No. 140, the west levee of the Sacramento River in Levee District
 No. 1 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 sum-
 marized 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 89.0 on the gage at Butte City and 110.5 on the gage at Ord
 Ferry) occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevation</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 trepasses upon the project right-of-way.

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

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

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

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

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

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

Respectfully submitted,

Superintendent of Works

Exhibit H

Local Cooperation Agreement

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

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

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

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

NOW, THEREFORE, the parties agree as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE UNITED STATES OF AMERICA

APPROVED:

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

FOR THE SECRETARY OF THE ARMY

DATE: 2 May 84

THE STATE OF CALIFORNIA

By: *Robert E. Bush*
The Reclamation Board

DATE: April 20, 1984

CERTIFICATE OF APPROVAL

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

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

JOHN K. VAN DE KAMP, Attorney General

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

CERTIFICATE OF AUTHORITY

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

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

By: David B Anderson
Attorney for the Reclamation Board

CERTIFICATE OF APPROVAL

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

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

By: David B. Adams
Attorney for the Reclamation Board

DECLARATION OF FINANCIAL ABILITY

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

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

Dated this 20th day of April, 1984.

By: 
General Manager, State Reclamation Board

Sacramento River Bank Protection Project,
California

DECLARATION OF FINANCIAL ABILITY

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

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

Dated this 20th day of April, 1984.

By: 
General Manager, The Reclamation Board

Sacramento River Bank Protection Project,
California



REPLY TO
ATTENTION OF

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

03/22/2006

Executive Office

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

MAR 22 2006

Dear Mr. Fua:

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

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

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

Sincerely,

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

Enclosure

Copy Furnished (w/encl):

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

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

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

WITNESSETH, THAT:

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

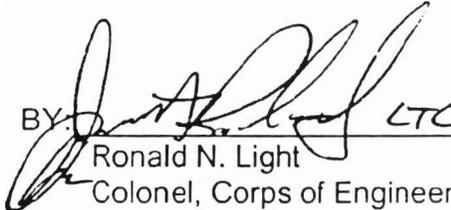
WHEREAS, the original agreement terms failed to reference a number for the lineal feet of river bank authorized by the statute for inclusion in the project,

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

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

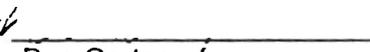
IN WITNESS WHEREOF, the parties hereto have executed this amendment to the Agreement, which shall become effective upon the date it is signed by the authorized representative of the Government.

THE DEPARTMENT OF THE ARMY

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

DATE: 26 MARCH 2006

THE STATE OF CALIFORNIA
Represented by the Reclamation Board

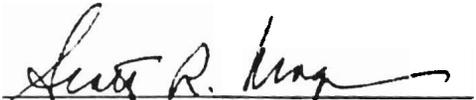
BY: 
Ben Carter
Reclamation Board
President

DATE: 18 MARCH 2006

CERTIFICATE OF AUTHORITY

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

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


Attorney for the Reclamation Board

CERTIFICATION REGARDING LOBBYING

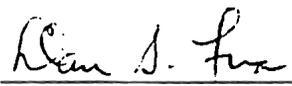
The undersigned certifies, to the best of his or her knowledge and belief that:

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

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

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

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

BY: 
Dan Fua
The Reclamation Board
Acting Manager

DATE: MAR 17 2005

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

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

Date 11/16/2000



WILLIAM HENSON
Sr. Assistant District Counsel

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

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

WITNESSETH, THAT:

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

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

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

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

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

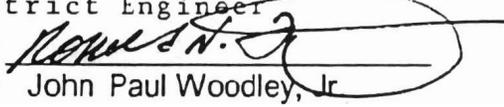
5. In fulfilling the obligations set forth in paragraph 1 of this Agreement, the following conditions and procedures shall apply to a State offer to accelerate its contribution of funds to the Government:

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

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

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

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

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

DATE: 5/5/06

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

BY: 
Ben Carter
President
California State Reclamation Board

DATE: 5 MAY 2006

CERTIFICATE OF AUTHORITY

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

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

Scott R. Mowse
Attorney for the California State Reclamation Board

CERTIFICATION REGARDING LOBBYING

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

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

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

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

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

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

DATE: 5-5-06

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

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

WITNESSETH, THAT:

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

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

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

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

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

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

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

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

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

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

1. Paragraph 1.i. of the Agreement is amended by deleting the phrase: " and utility changes," and substituting "utility changes, and the credit to be afforded for the Section 215 work pursuant to paragraph 6.h. of this Agreement,".
2. Paragraph 1.i(1) of the Agreement is amended by adding "and performance of the Section 215 work" after "interests".
3. The Agreement is amended by adding Paragraph 6 at the end thereof:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

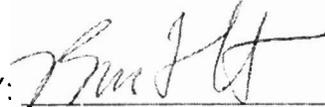
4. All other terms and conditions of the Agreement, as previously amended, remain unchanged.

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

THE DEPARTMENT OF THE ARMY

THE STATE OF CALIFORNIA
The Reclamation Board

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

BY: 
Benjamin F. Carter
President
The Reclamation Board

DATE: 20 JUN 06

DATE: 20 JUNE 2006

CERTIFICATE OF AUTHORITY

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

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

Scott R. Morgan
Scott Morgan, Counsel
The Reclamation Board

CERTIFICATION REGARDING LOBBYING

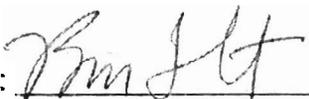
The undersigned certifies, to the best of his or her knowledge and belief that:

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

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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 177.8R,

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.