

**SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL**

**SACRAMENTO RIVER  
FLOOD CONTROL PROJECT**

**UNIT NO. 137**

**WEST LEVEE OF SACRAMENTO RIVER  
FROM  
NORTH END OF PRINCETON WAREHOUSE  
TO  
COLUSA BRIDGE**



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

CORPS OF ENGINEERS  
U. S. ARMY

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Sacramento District  
Corps of Engineers  
U. S. Army  
August 1955

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LOCATION	ADDITION OR REVISION	DATE
1-04 e.	Add contract no. DACW05-68-C-0067	Nov 1968
Exhibit B	Add drawing no. 50-4-4179	Nov 1968
Exhibit F	Add letter of acceptance dated 23 Oct 1968	Nov 1968
1-04 f.	Add contract no. DACW05-68-C-0067	Dec 1970
Exhibit B	Add drawing no. 50-4-4179	Dec 1970
Exhibit F	Add copy of letter of acceptance dated 19 Aug 1969	Dec 1970
1-04	Add subparagraph g.	Feb 1973
Exhibit B	Add drawing no. 50-4-4381	Feb 1973
Exhibit F	Add copy of letter of acceptance dated 27 Jan 1971	Feb 1973
1-04	Add subparagraph h.	Jun 1975
2-01	Add subparagraph c.	Jun 1975
Exhibit B	Add drawing No. 50-4-4586	Jun 1975
Exhibit F	Add copy of letter of acceptance dated 16 Jan 1973	Jun 1975
1-04	Add subparagraph i.	Jan 1976
Exhibit B	Add drawing no. 50-4-5001	Jan 1976
Exhibit F	Add copy of letter of acceptance dated 29 Nov 1974	Jan 1976
2-05	Add subparagraph a & b (page 7a)	Sep 1977
1-04	Add subparagraph j.	Nov 1983
Exhibit B	Add drawing no. 50-4-5438	Nov 1983
Exhibit F	Add copy of letter of transfer dated 15 Dec 1981	Nov 1983
2-05	Delete subparagraph b (page 7a)	Feb 1984
1-04	Add subparagraph k	Nov 2010
Exhibit B	Add drawing: G-1, C-1, C-2, C-3 (4 sheets)	Nov 2010
Exhibit F	Add copy of letter of transfer dated 12 Aug 1946	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 21 Aug 1946	27 Dec 2010
1-04	Add subparagraph l	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 15 Sep 1950	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 3 Dec 1951	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 8 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

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
Exhibit F	Add copy of letter of transfer dated 22 Jul 1952	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 15 Jan 1953	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 10 Oct 1968	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 6 Aug 1969	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 18 Jan 1971	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 19 Nov 1974	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 31 Dec 1981	8 Mar 2011
1-04	Add subparagraph m	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 27 Nov 1985	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 3 Mar 1986	8 Mar 2011
1-04	Add subparagraph n	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 21 Dec 1987	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 24 Nov 2010	23 May 2011
Exhibit B	Add drawing no. 50-4-5758	3 Oct 2011
Exhibit B	Add drawing no. 50-4-5712	3 Oct 2011

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EXHIBITS

Exhibit

A	Flood Drawing	Unattached (Contained in Standard Manual)
A-1	Location Drawing	1 Sheet
B	"As Constructed" Drawings	Unattached
C	Plates of Suggested Flood Fighting Methods	Unattached (Contained in Standard Manual)
D	Check List No. 1 - Levee Inspection Report	Unattached (Contained in Standard Manual)
E	Check Lists - Levees, Channels and Structures	Sheets 1 thru 8
F	Letter of Acceptance by State Reclamation Board	Sheets 1 thru 4
G	Semi-Annual Report Form	Sheets 1 and 2

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UNIT NO. 137  
WEST LEVEE OF SACRAMENTO RIVER  
FROM  
NORTH END OF PRINCETON WAREHOUSE  
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COLUSA BRIDGE

SECTION I  
INTRODUCTION

1-01. Location. - The improvement covered by this manual is that part of the Sacramento River Flood-control Project which includes the west levee of the Sacramento River from the north end of the Princeton Warehouse downstream about 20.9 river miles to the Colusa Bridge. Location by river mileage is from mile 164.4 to mile 143.5, or as shown on drawings of Exhibit B, the levee within this unit extends from station 884+83 downstream to station 0+00 at the Colusa Bridge. In general, the area lies between the towns of Princeton and Colusa, all the Reclamation District No. 2047, Colusa County, California. Location of the completed unit covered by this manual is shown on Exhibit A-1. This manual includes the area covered by the supplemental manual previously prepared for Unit No. 6 of the Sacramento River Flood Control Project entitled, "West Levee, Sacramento River, Colusa to Packers" and supersedes such supplemental manual.

1-02. Protection Provided. - The levee of Unit No. 137 provides direct protection to the towns of Princeton and Colusa and adjacent agricultural land against flood waters of the Sacramento River and is an essential feature of the Sacramento River Flood-control Project. The grade of the adopted flood plane profile varies from elevation 93.6 at the north end of Princeton Warehouse to elevation 72.23 at Colusa Bridge (elevations are referred to Corps of Engineers datum). The levee grade provides a freeboard of 3 feet or more. The project design capacity of the Sacramento River channel within this unit is 160,000 cubic feet per second from Princeton downstream to a point opposite Moulton Weir; 135,000 cubic feet per second from Moulton Weir downstream to a point opposite Colusa Weir; and 65,000 cubic feet per second from Colusa Weir downstream to the Colusa Bridge.

1-03. Project Works. - The project works covered by this manual comprises the west levee of the Sacramento River as described in paragraph 1-01 above. This levee was originally built by local interests and has been repaired, enlarged and reconstructed by the Corps of Engineers to the adopted grade and section of the project.

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\* This work was performed under the Sacramento River Bank Protection Project authorized by the Flood Control Act of 14 July 1960, Eighty-sixth Congress, Second Session, Senate Document No. 103.

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1-04. Construction Data and Contractor. In general, all construction features of the project works of Unit No. 137 are based on standard plans and specifications, details being covered in the drawings of Exhibit B.

In addition to repair of levee breaks and emergency works, more recent construction work required to bring locally built levees to project grade and section was accomplished by the Sacramento District Corps of Engineers under the following contracts:

a. Enlargement of the west levee of the Sacramento River from Packers to Princeton was constructed under Contract No. W-04-167-eng-118 by H. Earl Parker and M. N. Ball & Sons, contractors, and completed on 31 December 1943.

b. Set back and enlargement of the west levee of the Sacramento River at upper and lower ends of Hamilton Bend was constructed under Contract No. W-04-167-eng-71 by A. Teichert & Son, contractor, and completed on 7 January 1944.

c. Enlargement of the west levee of the Sacramento River from Colusa to Packers was performed by Morrison-Knudsen Company, Inc., contractors, under Contract No. W-04-167-eng-1061. Construction of this portion of the project works was started on 3 September 1945 and completed on 2 May 1947.

d. Enlargement of the west levee of the Sacramento River at Colusa Warehouse, mile 144.2, was performed by H. Earl Parker, Inc., contractor, under Contract No. DA-04-167-eng-868 during the period from 20 October 1952 to 11 December 1952.

e. Bank protection, right bank of Sacramento River at Mile 147.95 (Unit No. 13) was accomplished under Contract No. DACW05-68-C-0067 by H. Earl Parker, Inc. and completed during October 1968. Specification No. 3369. Drawing No. 50-4-4179.

f. Stone protection on the right bank of the Sacramento River Bank at Site Mile 143.5 (a portion of Unit 13, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-68-C-0067 by H. Earl Parker during the period from 17 April 1968 to 29 August 1969. Specification No. 3369, Drawing No. 50-4-4179.

g. Stone protection on the right bank of the Sacramento River at Site Mile 143.8 (a portion of Unit 20, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-71-C-0051 by Claude C. Wood during the period from 1 October 1970 to 30 October 1972. Specification No. 3459, Drawing No. 50-4-4381.

h. Stone protection and selective clearing on the right bank of the Sacramento River at Site Mile 143.8 (a portion of Unit 22) was accomplished under Contract No. DACW05-72-C-0057 by A. A. Teichert and Sons during the period from 20 March 1972 to 9 November 1973. Specification No. 3924, Drawing No. 50-4-4586.

i. Stone protection, bank sloping and selective clearing on the right bank of the Sacramento River at Site Mile 154.8 (PL 84-99 Emergency Repair Authority) was accomplished under Contract No. DACW05-72-C-0025 by Wayne L. Grist, Inc. during the period from 2 October 1974 to 6 December 1974. Specification No. 4786, Drawing No. 50-4-5001.

j. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 146.0 R and 154.7 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.

k. PL 84-99 rehabilitation repair of the Sacramento River waterside right bank levee toe, under Contract No. W91238-06-D-0029 (Task Order No. 5), by DD-M Leasing Company, Inc., DBA DD-M Crane & Rigging. Construction was completed on December 1, 2007. The repair is from coordinate 39.315147°, -122.029917° to 39.310089°, -122.030361° (NAD83). Specifications: P.L. 84-99 CY2007 Levee Repairs. Drawings: "P.L. 84-99 Levee Rehabilitation Repairs, CY2007 Order 3-5 sites, Maintenance Area 1", as-built.

l. Bank protection, right bank Sacramento River opposite Colusa Weir at Mile 146 was completed on 8 August 1950 by Lord & Bishop, contractors, under Contract No. DA-04-167-eng-197.

m. Bank sloping and stone protection on the right bank of the Sacramento River, Site Mile 154.6, was accomplished under Contract No. DACW05-84-C-0112. Specification No. 7053, Drawing No. 50-4-5712.

n. Bank sloping and stone protection on the right bank of the Sacramento River, Site Mile 147.7 was completed on 18 December 1987 under Contract No. DACW05-86-C-0095. Specification No. 7875, Drawing No. 50-4-5758.

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 80.0 on the continuous water stage recorder and staff gage located on the right bank of the Sacramento River at Gordon Ranch pumping plant, one-quarter mile upstream from Moulton Weir, also when the water surface reaches or exceeds a reading of 65.0 on the continuous water stage recorder and staff gage located on the right bank of the Sacramento River immediately downstream from Colusa Bridge. (Staff gages set on the U. S. Corps of Engineers datum.)

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

1-07. Acceptance by State Reclamation Board. Responsibility for operating and maintaining the completed works was officially accepted by the Reclamation Board of the State of California on 21 August 1946, 18 December 1951, 18 February 1953, and 4 March 1953, as shown on the attached letters of acceptance, Exhibit F.

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

SECTION II

FEATURES OF THE PROJECT SUBJECT  
TO FLOOD CONTROL REGULATIONS

2-01. Levees.

a. Description. The levee described in this manual is located along the westerly side (right bank) of the Sacramento River from the north end of Princeton warehouse downstream to the Colusa Bridge. Location by river mileage is from mile 164.4 to 143.5. The existing levee of this unit has been rebuilt to adopted grade and section by new construction which enlarge the levee to provide a crown 20 feet wide, a landside slope of one vertical on two horizontal and a riverside slope of one vertical on three horizontal. Construction also included a gravel road surfacing 12 feet wide on top of the levee with turnouts at 1,000 feet intervals, together with necessary drainage structures, road approaches and appurtenances. For more complete detail of items included in construction of above-mentioned levee, refer to the "As Constructed" drawings of Exhibit B. Structures affecting levee maintenance are listed in Exhibit E.

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

- (1) Maintenance – paragraph 4-02 of 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.

c. Environmental values. 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 as long as it remains alive and in a healthy state.

2-02. Drainage and Irrigation Structures.

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

(Stations are as shown on drawings of Exhibit B)

Location Station	Size and kind of pipe	Gate Model No	Other Structure Description	Elev. of invert at pipe
63+53	36" C.M.P.	2-101	Sliding metal gate	61.5
103+18	2-36" C.M.P.	101		61.4
120+00	54" C.M.P.	101		61.25
120+60	24" C.M.P.	101		62.1
150+06			2-5'x5' coner culverts 2-slide gates hand operated	59.0
150+20	30" C.M.P.	101		62.1

Location : Station	Size and kind of pipe	Gate : Model No.:	Other Structure Description:	Elev of invert at pipe
177+67	36" C.M.P.	101		66.1
197+19	36" C.M.P.	101		65.5
198+00	36" C.M.P.	101		65.5
198+00	18" Steel	100		65.5
247+86	30" C.M.P.			66.7
303+70	36" C.M.P.			68.5
331+31	36" C.M.P.			70.2
339+74	72" C.M.P.		Sliding Metal Gate	66.5
370+90			4'-9"x9'-6" concr culvert	
			two slide gates-hand operated.	66.3
385+33.5			3'-10"x6' concr culvert	68.8
538+42	24" Steel	100		72.2
538+42	36" C.M.P.	101		72.2
578+60	24" Steel	100		
670+00	30" C.M.P.	101		
710+82	36" C.M.P.			
727+65	36" C.M.P.			
754+20	16" Steel	100		

Notes pertaining to gates and abbreviations:

(a) Gate Model No. 100 is a Calco automatic drainage gate on outlet end of pipe. It closes against face pressure and opens automatically to permit outflow when pressure is released. Gate Model No. 101 is a Calco slide gate which operates by handscrew on a steel frame.

(b) C.M.P. = Corrugated Metal Pipe.

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 the 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 low-water channel of the Sacramento

River within this unit meanders through an overflow area that has a variable width of from 700 feet to 4,800 feet. Floods are confined between levees along both banks of the floodway and when flood discharge exceeds the carrying capacity of the Sacramento River, water flows over Moulton and Colusa Weirs, into Butte Basin. From Princeton downstream to a point opposite Moulton Weir, the Sacramento River has a project design capacity of 160,000 cubic feet per second; from Moulton Weir downstream to a point opposite Colusa Weir the project design capacity is 135,000 cubic feet per second and from Colusa Weir downstream to Colusa Bridge the project design capacity is 65,000 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 and the requirements which follow shall be observed only to that extent.

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

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

It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood in excess of a reading of 80.0 on the gage at Gordon Ranch pumping plant or in excess of a reading of 65.0 on the gage at Colusa Bridge, as indicated in paragraph 1-05 of this manual. The Superintendent shall dispatch a message by the most suitable means to the District Engineer whenever the water surface at Gordon Ranch pumping plant or at Colusa Bridge reaches the gage readings indicated above. The Superintendent shall cause readings to be taken at said gages at intervals of two to four hours during the period when the water surface is above the flood-flow stages indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-06 of the Standard Manual.

#### 2-04. Miscellaneous Facilities.

a. Description. Miscellaneous structures or facilities

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

- (1) Bridges.
  - (a) Swing bridge at Colusa.
  - (b) Timber bridge across a borrow pit at station 371+20 (about 46 feet long).
- (2) Miscellaneous Structures. None
- (3) Utility Relocations. None.
- (4) Hydrographic Facilities. Continuous water stage recorders and staff gages are to be maintained by the following government agencies:
  - (a) State Division of Water Resources station located on right bank of the Sacramento River at Gordon Ranch pumping plant, one quarter mile upstream from Moulton Weir.
  - (b) U. S. Corps of Engineers and State Division of Water Resources cooperative station located on the left bank of the Sacramento River near the south end of Moulton Weir.
  - (c) U. S. Corps of Engineers and State Division of Water Resources cooperative station located on the left bank of the Sacramento River at the upstream end of Colusa Weir.
  - (d) State Division of Water Resources winter station and U. S. Geological summer station located on the right bank of the Sacramento River immediately downstream from the Colusa Bridge.

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

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

2-05. Environment Protection.

a. Vegetation 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. \*

b.

\*(Added September 1977) \*\*  
\*\*(Deleted February 1984)

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. \*~~

~~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 Site Miles 174.4 and 177.4, right bank) *delited* \*~~

### SECTION III

#### REPAIR OF DAMAGE TO PROJECT WORKS AND METHODS OF COMBATING FLOOD CONDITIONS

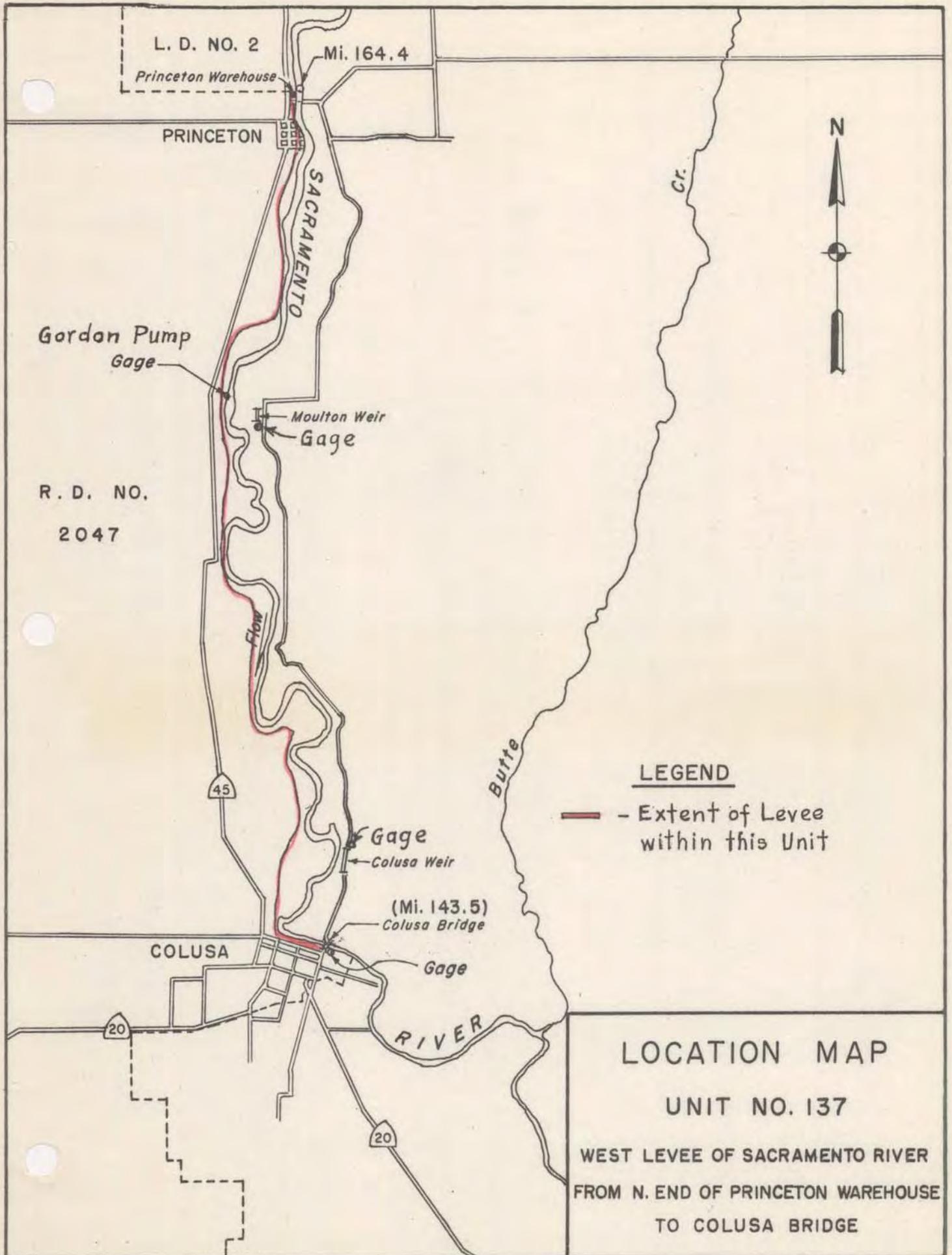
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, the which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Division of Water Resources of the State of California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

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

EXHIBIT A

FLOOD-CONTROL REGULATIONS

(See Standard Manual)



L. D. NO. 2  
Princeton Warehouse

Mi. 164.4

PRINCETON

SACRAMENTO

Cr.



Gordon Pump  
Gage

Moulton Weir  
Gage

R. D. NO.  
2047

Flow

45

LEGEND

— Extent of Levee  
within this Unit

Gage  
Colusa Weir

(Mi. 143.5)  
Colusa Bridge

COLUSA

Gage

20

20

RIVER

LOCATION MAP

UNIT NO. 137

WEST LEVEE OF SACRAMENTO RIVER  
FROM N. END OF PRINCETON WAREHOUSE  
TO COLUSA BRIDGE

EXHIBIT B

“AS CONSTRUCTED”  
DRAWINGS

See separate folder for the following drawings:

<u>File No.</u>	<u>Title</u>
50-4-2167	Enlargement of the West Levee of the Sacramento River from Packers to Princeton, sheets 1 to 6, inclusive.
50-4-2159	Levee Setback and Enlargement of the West Levee of the Sacramento River – Upper and Lower Ends of Hamilton Bend, 1 sheet.
50-4-2244	Enlargement of the West Levee of the Sacramento River from Colusa to Packers, sheets 1 to 7, inclusive.
50-4-2246	West Levee of the Sacramento River from Colusa to Packers – Irrigation Structure at Station 150+06, 1 sheet.
50-4-2247	West Levee of the Sacramento River from Colusa to Packers – Irrigation Structure at Station 370+90, 1 sheet.
50-4-2906	Enlargement of the West Levee of the Sacramento River at Colusa Warehouse, Mile 144.2, 1 sheet.
50-4-4179	Bank Protection, various locations, Right and Left Banks, Sacramento River and Elder Creek, in 20 sheets (Unit No. 13).
50-4-4381	Bank Protection, Various Locations, Right and Left Banks, Sacramento River between Mile 81.0 and 144.0, in 20 sheets.
50-4-4586	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 144.0 to Mile 110.0, in 18 sheets.
50-4-5001	Bank Protection, Right Bank Sacramento River Mile 143.0 to Mile 154.8 (PL 84-99), in 1 sheet.
50-4-5438	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 110.0 to Mile 184.0, in 22 sheets.
None	PL 84-99 Levee Rehabilitation Repairs CY2007 Order 3 – 5 Sites, Maintenance Area 1, Colusa County, California, in 4 sheets.

50-4-5712 Bank Protection – Unit 38A, Sacramento River Mile 80.4 to Mile 198.6, in 9 sheets.

50-4-5758 Bank Protection – Contract 40A, Sacramento River Mi. 132.4 to Mi. 179.5, in 68 sheets.

EXHIBIT B  
Unattached

**EXHIBIT C**

**PLATES OF SUGGESTED FLOOD FIGHTING METHODS**

**(See Standard Manual)**

EXHIBIT D

CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(See Standard Manual)

EXHIBIT E

CHECK LISTS OF LEVEES,

CHANNEL AND STRUCTURES

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

CHECK LIST NO. 2

UNIT NO. 137

Inspector's Report Sheet No. \_\_\_\_\_

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

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

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

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gullying of the section has occurred.
- Item (c) If sufficient erosion or gully of back 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. 137

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 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. 137

Inspector's Report Sheet No. \_\_\_\_\_

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

For location of stations see drawings of Exhibit B

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Location by Station	Bank	Debris or other obstruction to flow	Damage or settlement of pipe or conduit	Condition of concrete head-wall or invert paving	Condition of right-of-way adjacent to structure	Repair Measures Taken since last Inspection	Comments
63+53	Right						
103+18	"						
120+00	"						
120+60	"						
150+06	"						
150+20	"						
177+67	"						
197+19	"						
198+00	"						
198+00	"						
247+86	"						
303+70	"						
331+31	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 137

Inspector's Report Sheet No. \_\_\_\_\_

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

For location of stations see drawings of Exhibit B

(a) Location by Station	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or Settlement of pipe or conduit	(e) Condition of concrete head- wall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken since last Inspection	(h) Comments
339+74 370+90 385+34 538+42 538+42 578+60 670+00 710+82 727+65 754+20	Right " " " " " " " " " " " " " "						

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

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

EXHIBIT F

LETTER OF ACCEPTANCE  
BY STATE RECLAMATION BOARD



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

REPLY TO  
ATTENTION OF

Flood Protection and Navigation Section

NOV 24 2010

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

Dear Mr. Punia:

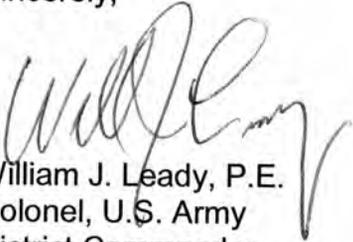
The U.S. Army Corps of Engineers has completed a portion of work under PL 84-99, Flood Control and Coastal Emergencies (FCCE) (33 U.S.C. 701n) (69 Stat. 186) for emergency management activities. Repairs were made to rehabilitate various sites within Maintenance Area 1. Additional information about the repair and location of the sites may be found in the document titled, "Project Information Report for Public Law 84-99 Levee Rehabilitation, Maintenance Area 1, (Final)", dated April 13, 2007.

The rehabilitation work meets the requirements of the existing Operation and Maintenance Manuals (O&M) and enclosed revisions. The subject flood damage reduction project is considered complete as of the date of this letter. The repairs were completed under Contract Number W91238-06-D-0029, Task Order Number 5. As-constructed drawings and revisions to the Operation and Maintenance Manual are enclosed. The Central Valley Flood Protection Board shall continue to operate and maintain the completed Rehabilitation Effort as part of the project.

If you have any questions regarding this project, please contact Ms. Paige Caldwell (916) 557-6919 or Ms. Christy Jones (916) 557-7107, Readiness Section. If you have any questions regarding this transfer, please contact Mr. Ryan Larson at (916) 557-7568 or Mr. Robert Murakami at (916) 557-6738, Flood Protection and Navigation Section.

A copy of this letter is being furnished to Sutter Maintenance Yard, P.O. Box 40, Sutter, CA 95982.

Sincerely,

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

Unit 137

Enclosure

Flood Protection and Navigation Section

cc: CESPCK-CO-E (Jones)

MURAKAMI *RM*

LARSON *RL*

NAGY *WAW*

CALDWELL *EPC*

OLSEN *W*

MAHONEY *Lincoln*

*NLO* FAUSTINO *AT*

MULLINS *W*

LEADY

**CERTIFIED**

December 21, 1987

No. 789725  
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 (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 21, 1987 to the State of California for operation and maintenance.

*AS*  
A. SMITH

*fr*  
HELM

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.

*J*  
DENNIS

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

Sincerely,

*W*  
CZARZASTY

*W*  
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*

*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 letters of October 21 and November 27, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 38A to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 154.6 Right Bank, and 192.6, Left Bank, Sacramento River.

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

The Reclamation Board, at its regular meeting of 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

RAYMOND E. BARSCH  
General Manager

*Units 137, 138*

bcc: Gene Snow  
Robert Bailey

RRGoodnight:pva

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Clark  
Mc*

November 27, 1985

**CERTIFIED**  
No. 783704  
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 November 14, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 39A) to the State of California for Operation and Maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 94.0, 96.6, 127.5 and 128.5 and right bank at Site Miles 80.6, 99.2, and 134.6. These sites were completed during the past construction season in accordance with Contract Number DACW05-84-C-0112, Specification Number 7033 and Drawing Number 50-4-5712.

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 now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of November 20, 1985 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 123, 128, 130, 134, and 137 Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Sacramento, California (City, State, and ZIP Code)  
550 Capitol Mall  
Department of Engineers  
Kathleen (Post Office Address - Street or P.O. Box)  
Wayne J. Scholl  
Colonel, Corps of Engineers  
District Engineer

*Units  
123, 128,  
130,  
134, 137*

*ROMPALA JB*  
*KEELY*  
*HEATH*  
*FAST*

Copy Furnished:

DWR, ATTN: M. Luttrepp  
DWR, ATTN: D. Weixner  
Commander, South Pacific Division, ATTN: SPDCO-C  
Commander, USACH, ATTN: DAEN-CWO-0

RECEIVED INSTRUCTIONS  
OFFICIAL BUSINESS  
UNITED STATES POSTAL SERVICE

*SCHOLL*  
*11/26*

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

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD1416 - 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 15, 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 146.0 and 154.7 Right Bank and Sites Miles 137.3, 142.2 and 159.6 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,

A handwritten signature in cursive script that reads "Eldon E. Rinehart".

FOR  
ELDON E. RINEHART  
General ManagerCERTIFIED MAIL  
RETURN RECEIPT REQUESTED

By cert to  
Nolan 7/2/82  
Talley  
Unit 137  
137/137





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

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REPLY TO  
ATTENTION OF SPKCO-0

15 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 10 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 146.0 and 154.7 and left bank at Site Miles 137.3, 142.2 and 159.6. The sites described in the inclosure were completed on 10 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 15 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. 134, 136 and 137 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>
137.3 left bank	22+00 to 31+00	900
142.2 left bank	14+00 to 22+50	850
159.6 left bank	0+00 to 12+00	1200
146.0 right bank	-0+50 to 22+00	2250
154.7 right bank	16+00 to 22+00	600

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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November 29, 1974

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

Refer to: 4130.20.300

Dear Sir:

Pursuant to the authority invested in me by The Reclamation Board, I hereby accept from the District Engineer the completed emergency flood control work in the Sacramento River West Side Levee District and State Maintenance Area No. 1 in Colusa County. The emergency flood control work was transferred to the State of California by your letter of November 19, 1974.

The emergency 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 143.4 and 154.8 Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5001, Specification No. 4786, and Contract No. DACW 05-75-C-0025, insofar as could be determined visually.

Sincerely yours,

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

EXHIBIT F

19 November 1974

*Am Clark  
File*

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

*Done*

Gentlemen:

Reference is made to the joint inspection of 19 November 1974, to review the completed emergency bank protection work in the Sacramento River West Side Levee District and Maintenance Area No. 1 in Colusa County, authorized by Section 2304(a)(1), Title 10, U.S.C., and Section 5 of the Flood Control Act of 18 August 1941, as amended ( Public Law 99, 84th Congress, 1st Session).

This emergency work, as listed on the inclosure was completed on 19 November 1974, in accordance with Specification No. 4726, Contract No. DACW05-75-C-0025 and Drawing No. 50-4-5001. *4768*

The work consisted of levee bank sloping and placement of stone bank protection along the Sacramento River right bank at Site Miles 143.4 and 154.8. Therefore, said work together with the waterway bank contiguous thereto, is transferred as of 19 November 1974, to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 131 and 137 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

*R. G. Rockwell, Jr.*  
ROM/ALA/kh

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

*R. W. Coleman*  
COLEMAN

*[Signature]*  
HENSON

1 Incl  
As stated

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

*Units 131, 137*

*[Signature]*  
McKINSEY

OCE  
SPD

POTAMOS

cc:  
Engr (Lev & Chan)      Valley Res Ofc  
      (Prog Dev)         F & A (Grantham)

*R*  
ROCKWELL

SUMMARY OF EMERGENCY BANK PROTECTION  
SACRAMENTO RIVER RIGHT BANK

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
143.4		200
154.8	12+00 to 16+50	450
		<u>650</u>

WMS 131,137

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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January 16, 1973

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

Refer to: 4130.60.305

Dear Sir:

Reference is made to your letter of December 29, 1972, concerning the transfer to the State of California, for maintenance and operation, a portion of the Sacramento River Bank Protection Project, Unit No. 22.

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 Site Miles 143.8 Right, 142.4 Left, 140.3 Left, 138.5 Left and 138.2 Left, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This work has been constructed in conformance with Drawing No. 50-4-4586, Specification No. 3924, and Contract No. DACW72-C-0057, insofar as could be determined visually.

The Reclamation Board at its regular meeting of January 12, 1973, formally accepted from the District Engineer for operation and maintenance, the completed work on the above referenced sites.

Sincerely yours,

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

EXHIBIT F

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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January 27, 1971

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

Dear Sir:

Reference is made to your letter of January 18, 1971, concerning transfer to the State of California of a portion of the S.R.B.P.P., Unit No. 20 for maintenance and operation. The transferred sites were as follows:

State of California	Site Mile 143.8
Maintenance Area No. 1	Right Bank

This work was constructed in conformance with specification No. 3459, Contract No. DACW-71-C-0051, Drawing No. 50-4-4381 and completes a portion of the work to be done on Unit No. 20.

The Reclamation Board at its meeting of January 22, 1971, formally accepted the above-referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

SPKCO-0

18 January 1971

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

Gentlemen:

Reference is made to the joint inspection of 14 January 1971, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #20), to the State of California for operation and maintenance.

The flood control work consists of bank sloping and placement of stone bank protection on the Sacramento River right bank at Site Mile 143.8 as listed on the inclosure. The work was completed on 30 November 1970 in accordance with Specification No. 3459, Contract No. DACW05-71-C-0051, Drawing No. 50-4-4381.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 14 January 1971 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 137, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

ROMPALA/p

COLEMAN

HENSON

JAMES C. DONOVAN  
Colonel, CE  
District Engineer

1 Incl (in dupe)  
as stated

Copy furnished:  
DWR, ATTN: John Wright

OCE  
SPD

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

*Unit 137*

DONOVAN

*to A. Huber 20 Jan 71*

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
UNIT 20, SACRAMENTO RIVER

	<u>RIGHT BANK</u>			
<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOEWALL</u>	<u>L.F.</u>
143.8	4+15 to 8+00 21+50 to 25+50	385 400 <u>785</u>	4+15 to 8+00	385

Unit 137

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The Reclamation Board  
State of California

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AUG 19 1969  
4130.60.303

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

Dear Sir:

Reference is made to your letter of August 6, 1969 concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project, Unit No. 13, consisting of Site Mile 143.5, right bank, Sacramento River, and Sites Mile 0.75, 0.83 and 1.56, left bank, Elder Creek and Site Mile 1.01, right bank, Elder Creek for maintenance and operation.

This work was constructed in accordance with Specification No. 3369, Contract No. DACW05-68-C-0067, Drawing No. 50-4-4179.

The Reclamation Board, at its meeting of August 15, 1969, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

6 August 1969

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

Gentlemen:

Reference is made to the joint inspection of 4 August 1969, made for the purpose of transferring a portion of the Sacramento River Bank Protection Work (Unit #13), to the State of California for operation and maintenance.

The flood control work, consisting of bank sloping and placement of stone bank protection on the Elder Creek right and left banks and the Sacramento River right bank, is as follows:

<u>LEVEE UNIT</u>	<u>ELDER CREEK - LEFT BANK</u>	
<u>SITE MILE</u>	<u>STATION</u>	<u>L.F.</u>
0.75	35+70 to 40+00	430
0.83	43+75 to 48+50	475
1.56	80+70 to 83+00	230
	<u>ELDER CREEK - RIGHT BANK</u>	
1.01	36+13 to 50+00	1,387
<u>RIVER MILE</u>	<u>SACRAMENTO RIVER - RIGHT BANK</u>	
143.5	0+95 to 6+90	595
	7+27 to 7+70	43

The work was completed on 4 August 1969, in accordance with Specification No. 3369, Contract No. DACW05-68-C-0067, Drawing No. 50-4-4179. The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session, and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project.

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Units 131137  
 & Vol 12

SFKCO-0  
The Reclamation Board

6 August 1969

Therefore, said work, together with the waterway banks contiguous thereto, is transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manuals for the Sacramento River Flood Control Project, Supplement Nos. 131 & 137; and Elder Creek, Sacramento River and Major & Minor Tributaries Project. Copies will be furnished your office at a later date.

Sincerely yours,

GEORGE B. SKINNER  
Lieutenant Colonel, CE  
Acting District Engineer

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

✓ cc:  
Engr-Lev&Chan  
Engr-Prog Dev  
Valley  
F&A (Cordano)  
Supply Divn

*mc*  
ROMPALA/pp

*PC*  
COLEMAN

*js mcb*  
HENSON

*WJH*  
HART

*hw*  
SKINNER  
6 Aug

*Units 131, 137  
& Vol 12*

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Y

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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Oct 23 1968

4130.60.303

District Engineer  
Corps of Engineers  
US Army  
650 Capitol Mall  
Sacramento, California 95814

Dear Sir:

Reference is made to your letter of October 10, 1968 concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project, Unit No. 13, for operation and maintenance. This portion consisted of Sites Mile 147.95, 139.71 and 139.08, all on the right bank of the Sacramento River.

This work was constructed in accordance with Specification No. 3369, Contract No. DACW05-68-C-0067, Drawing No. 50-4-4179.

The Reclamation Board, at its meeting of October 18, 1968, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

SPKCO-0



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

Gentlemen:

Reference is made to the joint inspection of 9 October 1968, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #13), to the State of California for operation and maintenance.

The flood control work consisting of levee enlargement, bank sloping and placement of stone bank protection on the Sacramento River at Site Miles 139.08, 139.71 and 147.95, right bank, is listed on the attached inclosure. The work was completed on 10 October 1968, in accordance with Specification No. 3369, Contract No. DACW05-68-C-0067, Drawing No. 50-4-4179.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session; and Section 2304(a), Title 10.

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

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 131 & 137, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

ROMPALA

COLEMAN

HENSON

BLAIR

YOUNG

✓ 1 Incl  
as stated

Copy furnished:  
ENR

✓ OCE

✓ SPD

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

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units 131, 137*

*YOUNG*  
*DK*  
*11*

*Copy to Jensen  
7/15/68  
11/20/68*

SPKCO-0

10 October 1968

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
PORTION OF UNIT #13 - SACRAMENTO RIVER RIGHT BANK

<u>LEVEE UNIT SITE MILE</u>	<u>STONE PROTECTION</u>	<u>LINEAL FEET</u>
139.08	62+20 to 80+00	1,780
139.71	33+15 to 44+00	1,085
147.95	6+00 to 10+50	450

3,315

Units 131, 137

# REGISTERED MAIL Return Receipt Requested

*Arrieta*

SPKRD-9 824.3 (Sec. A. FCF)

15 JAN 1953

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

Gentlemen:

Reference is made to District Engineer's letter dated 1 December 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, two units of the Sacramento River Flood Control Project. Reference is also made to the joint inspection of these units of work which was made on 9 December 1952.

In accordance with the above, you are hereby advised that the levee enlargement along the right bank of the Sacramento River at Colusa Warehouse, Station 36482 to 42436, river mile 144.2, covered under Specification No. 1677, was completed on 11 December 1952.

The levee unit referred to above, together with the patrol road thereon, forms an integral part of the Sacramento River Flood Control Project, and meets with the requirements of the project. Therefore, said levee unit, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for operation and maintenance.

Completion of this work relieves the exception stated under Item a(7) of District Engineer's letter dated 8 December 1951. (Item No. 57)

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under paragraph 206.14(10) of these regulations, a maintenance manual covering this levee unit is in process of preparation and will be furnished to you upon completion.

(A1)

Unit No. 124-A = 365  
Unit 137 (A3)

SERVICE SECTION

1/8/53

SPRNO-P 124.3 (Sac R. FUP)  
The Reclamation Board

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

FOR THE DISTRICT ENGINEER:

Copy furnished:  
State Engineer  
1120 H Street  
Sacramento, California

Sincerely yours,

EARL G. PEACOCK  
Lt Col, CE  
Executive Officer

cc: Office, C. of E.  
So. Pac. Div. Eng.  
Eng. Div.  
Sacto. Proj. Eng.  
Service Sec.  
C. deArrieta

365

AL

SPKKO-P 824.3 (Sac. R. FCP)

22 JUL 1952

7/22/52

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

824.3 (Sac. R. FCP) 544

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.

- 343 (1) From Mile 165.5 to Mile 167.5 139
- 344 (2) From Mile 168.0 to Mile 174.1 139, 140

b. Easterly Levee along the Sacramento River, Part "B" of Specification 1636, Drawing No. 50-4-2897, near Butte City, Glenn County, California.

- 345 (1) From Mile 164.4 to Mile 168.5 ~~139~~ 138
- 346 (2) From Mile 168.9 to Mile 176.5 ~~139, 140~~ 138

69

Levee Sections  
343 to 346  
Letter No. 35



SPKCO-P 824.3 (Sac. R. FCP)  
The Reclamation Board

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.

It is to be noted that the sections of levee listed below, including portions of levee on which patrol roads were recently constructed under Part "A" and "B" of Specification No. 1636, were previously transferred to the State of California for operation and maintenance:

a. Westerly levee along the Sacramento River:

- 137, 139 (1) From Princeton (Mile 163.8) to Packers Warehouse, (Mile 165.5). Transferred by letter dated 3 December 1951, under Item c.
- 139 (2) From Mile 167.5 to opposite Packers Lake, Mile 168.0. Transferred by letter dated 3 December 1951, under Item b.
- 140 (3) From Glenn, Mile 174.1 to Sidds Landing, Mile 177.5. Transferred by letter dated 3 December 1951, under Item a.

b. Easterly levee of the Sacramento River:

- 136 (1) From Mile 158.5 (North end Moulton Weir) to Mile 164.4 (Princeton Ferry). Transferred by letters dated 6 February 1945 and 8 December 1951, paragraph b(3) of last letter.
- 138 (2) From Mile 169.5 to Mile 168.9 (at Butte City). Transferred by letter dated 8 December 1951, under Item paragraph b(4).

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of 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 units of work is in process of preparation and will be furnished your Board upon completion.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy furnished:  
State Engineer

cc: Office Chief of Engrs.  
Engr. Divn. R. Reifsnnyder  
So. Pac. Divn. Engr  
Sacto F. Executive Officer  
C de Arrieta

Concurrences	
Originator:	
Date:	22 July 1952
Exec. O	3
Chief	
Ad. Asst.	2
Chf. Tech	
Chf. Insp.	
Office	
Supv.	
Oper.	
Engr'g	
R. E.	
Fisc.	
Pers.	
Legal	
Supply	

70

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

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA  
1100 O STREET  
SACRAMENTO 14, CALIFORNIA

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

4/2/52

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

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

2

This copy was  
furnished on  
24 Feb. 1953  
B. 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.
⑫ ⑬	6 Dec. 1951	Back levee Egbert District*	Maintained by R. D. No. 536
⑭ ⑮	6 Dec. 1951	W. Levee Yolo By-pass Lindsey* Slough to Watson Hollow Drain*	Maintained by R. D. No. 536
⑰ ⑱	Do	N. Levee Watson Hollow Drain*	Do
⑲ ⑳	6 Dec. 1951	W. Levee Sacramento River Mile 59.0 to Lake Wash- ington Barge Canal	Maintained by R. D. No. 900
㉑ ㉒	Do	W. Levee Sacramento Riv. Mile 50.8 to 50.5	Bank protection contract. Maintained by R. D. No. 765

Copy to USED.

①

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. Water-  
ward 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)

8 Do

West levee, Sutter By-pass\*

Maintained by R.D.Nos. 70,  
1660, 1500. Condition upon  
completion of remaining  
part to standard section.

(71) (72) (73)

8 Do

North levee Tisdale  
By-pass†

Maintained by R.D.No. 1660.  
Waterward slope of 4 to 1  
not required.

(74)

8 Do

South levee Tisdale  
By-pass†

Maintained by R.D.No. 1500.  
Waterward slope of 4 to 1  
not required.

(75)

8 Do

East levee Sutter  
By-pass\*.

Maintained by State.

(76)

9 Do

W. levee Sacramento River  
Mile 35.15 to 35.86.

Maintained by R.D.No. 150  
(Merritt Island). Completed  
contract bank protection.

(81)

21  
2

Accepted Items

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.
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.
(155) (156) (157) 11	Do	W. Levee Sacramento River Mile 100.6 to Mile 101.4	Maintained by Sacramento River West Side Levee District. Completed contract.
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.
(160) (161) (162) (163) 11	Do	E. Levee Sacramento River, Natomas Cut to Feather River	Maintained by Recl.Dist.No.1001.
(164) 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.
(165) (166) (167) (168) (169) (170) 11	Do		

Accepted  
Items

No.	Date of Letter	Levee Location	Remarks
11 (171) (172)	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.
11 (173) (174)	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.
11 (175)	Do	N. Levee Yuba River from back levee of Marysville upstream 1.8 miles	Maintained by Marysville Levee Commission.
11 (176)	Do	S. Levee Yuba River from S.N.R.R. to S.P.R.R.	Maintained by R.D. No. 784.
11 (177)	Do	N. Levee Bear River from Feather River to W.P.R.R. Interceptor	Maintained by R.D. No. 784.
11 (178)	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.
11 (179) (180)	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.
11 (181) (182) (183) (184) (185) (186) (187) (188)	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.
11 (190)	Do	N.&S. levees Willow Slough Interceptor*	Maintained by State and R. D. No. 2035.
11 (191) (192)	Do	N.&S. levees of Putah Creek	Maintained by State.
11 (197) (198)	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)

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 → (32) (79A) ✓

303 Covered by letter dated

(53A) ✓

304 17 Nov. 1951

(54A) ✓

(23) ✓

(50) ✓

\*No waterway banks contiguous to these levees.

REGISTERED MAIL  
Return Receipt  
Requested

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

8 DEC 1951

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

824.3(SAC.R.FCP)SPK

Gentlemen:

Reference is made to your letter of 4 May 1951 acknowledging that certain reaches of the levees of the Sacramento River Flood Control Project and the waterway bank contiguous to said levee reaches meet the requirements of the project as authorized prior to the Flood Control Act of 1944.

The levee reaches in question are located as follows:

a. Westerly levee of the Sacramento River.

- 51 (1) Mile 163.8 (Princeton) to Mile 155.3. 137
- 52 (2) Mile 155.3 to Mile 154.3.
- 53 (3) Mile 154.3 to Mile 152.1.
- 54 (4) Mile 152.1 to Mile 151.3.
- 55 (5) Mile 151.3 to Mile 146.4.
- 56 (6) Mile 146.1 to Upstream outskirts of Colusa.
- 57 (7) Upstream outskirts of Colusa to Mile 143.5 (Colusa Bridge), excepting 320 lin. ft. at Colusa Warehouse Mile 144.2. 137

b. Easterly levee of the Sacramento River.

- 58 (1) Mile 155.5 (Terrill's Landing) to Mile 152.7 (South Line Begg's Ranch). 136

Letter No. 8

Items 51 to 76

SPEKA 824.5(Sac.Riv. F.C.P.)  
The Reclamation Board

- 59 (2) Mile 149.9 to Mile 149.7 (Graham's Ranch).
- 60 (3) Mile 149.4 (Farnsworth Pump) to Mile 149.0 (Sailor Bend).
- 61 (4) At Colusa Weir.
- 62 (5) Mile 143.3 (Arnold's) to Mile 140.2.
- 63 (6) Mile 139.3 to Mile 138.2 (Butte Slough Outfall Gates).
- 64 (7) Mile 138.2 (Butte Slough Outfall Gates) to Mile 137.9 (Marty's Pump).
- 65 (8) Mile 136.9 (Opposite Steidelmayer's Pump) to Mile 134.0 (Meridian Bridge).
- 66 (9) Mile 134.0 (Meridian Bridge) to Mile 133.8.
- 67 (10) Mile 133.2 to 132.3.
- 68 (11) Mile 131.8 to Mile 125.9.
- 69 (12) Mile 125.8 to Mile 123.1.
- 70 (13) Mile 122.8 to Mile 122.0.

c. Westerly levee of the Sutter Bypass.

- 71 (1) Butte Slough Outfall Gates to Tisdale Bypass. 133
- 72 (2) Tisdale Bypass to a point 5.8 miles northerly from Sacramento River. 133
- 73 (3) From a point 5.8 miles northerly from Sacramento River to Sacramento River. 133
- 74 d. Northerly levee of Tisdale Bypass. 133
- 75 e. Southerly levee of Tisdale Bypass. 129
- 76 f. Easterly levee of the Sutter Bypass from high ground near Longbridge to Feather River. 135

The records of this office show that your Board has accepted the levees covered by Items a.(1), a.(3), a.(5), a.(6), b.(4), b.(5), b.(6), b.(7), b.(8), b.(9), b.(10), b.(11), b.(12), b.(13), c.(1), c.(2), d. and e., above as complete. Accordingly the waterway bank contiguous to

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

said Items is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items a.(2), a.(4), a.(7), b.(1), b.(2), b.(5), c.(3) and f. above, although complete, has not been formally transferred as contemplated by the Project documents. Accordingly the levee covered by said Items, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

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

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy Furnished:

- ✓ Office, Chief of Engineers.
- ✓ So. Pac. Div. Engineer.
- ✓ State Engineer.
- ✓ Engr. Div. (2)
- ✓ C. de Arrieta

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

Original Date:	OHH 12-7-51
Exec. O.	
Chief	2
Ad. Asst.	
Chf. Tech. Asst.	B
Manag. Office Supt.	
Oper.	<i>[Signature]</i>
Eng.'s	
P. E.	
Rec.	
Perf.	
Legal	
Supply	

Letter No. 8

Items 51 to 76

*Design*  
*Burdale*

REGISTERED MAIL  
Return Receipt  
Requested

Letter No 2

2

SPKKA 824.5(Sac. 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
- 6. a. Sids Landing (Mile 177.5) to Glenn (Mile 174.1) 140
- 7. b. Opposite Packers Lake (Mile 168.0 to Mile 167.5) 139
- 8. c. Packers Warehouse (Mile 165.5) to Princeton (Mile 163.9) 137, 139

The records of this office show that on 19 January 1944 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

2

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



*Transfer to  
Flood Control  
S.R.F.C.P.*

PXKSO-P 624.3 (Sac. R. F.C. Proj.)

SEP 15 1950

*Accepted  
6 September 1950.*

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

Gentlemen:

Reference is made to letter from this office dated 23 June 1950 and letter from your office dated 26 June 1950 wherein a procedure for transfer of completed units of the Sacramento River Flood Control Project was proposed and accepted respectively.

In accordance with your letter of 8 September 1950 the Bank Protection along Sacramento River opposite Colusa Weir, Mile 146 St., completed 8 August 1950 under Contract DA-04-167-eng-197 by Lord & Bishop, Contractors, is hereby transferred to the State of California as of 6 September 1950.

There is inclosed a copy of the Flood Control Regulations prescribed by the Secretary of the Army pursuant to the provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of flood control works, of which the construction referred to is a part. In accordance with paragraph 206.10(10) of these regulations, this office will furnish you and local interests at a later date, with an operation and maintenance manual to assist in carrying out the obligations established. Copies of the contract drawings have previously been furnished to you.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

1 Incl.  
Flood Control  
Regulations

cc: C.R.R. w/o incl. (2)  
Engrg. Div. w/o incl.  
OCE w/o incl.  
Div. Engr. w/o incl.  
State Engr. w/incl.

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

UNIT NO. 41-A

## RESOLUTION

PASSED AND ADOPTED BY THE RECLAMATION BOARD

AUGUST 21, 1946

- - - -

WHEREAS The Reclamation Board has heretofore approved certain items of "new construction"; consisting of (1) the enlargement and construction of the West levee of the Sacramento River from Colusa to Packers, in Reclamation District No. 2047; (2) the enlargement and construction of the West levee of the Sacramento River and the South levee of Sycamore Slough located near Knights Landing in Reclamation District No. 730; and (3) the enlargement and construction of the West levee of the Feather River, two miles north of Yuba City, northerly twelve miles, a portion of which lies in Reclamation District No. 777, and a portion lying in Levee District No. 9 of Sutter County; and

WHEREAS the War Department, Corps of Engineers, District Engineer, Sacramento District, under dates of 12 August, 1946, and 13 August, 1946, has notified The Reclamation Board of the completion of the three items of levee enlargement and construction, and has transferred said portions of levee to the State of California for maintenance and operation by the proper local interests; and

WHEREAS the Chief Engineer of The Reclamation Board has caused to be made an inspection on the ground of the three items of new construction as specified above, and has found and determined that such work, as completed, has been prosecuted and carried out in conformance with plans and specifications therefor; now therefore be it

RESOLVED AND ORDERED that The Reclamation Board does hereby accept for the State of California the said three items of "new construction" as aforesaid, which have on the dates above set forth been transferred to said Board by the War Department, U. S. District Engineer; and be it further

Manual No. 4

Exhibit F

137, 137, 137, 137

RESOLVED AND ORDERED that the West levee of the Sacramento River from Colusa to Packers, together with the berms and appurtenant structures thereof, be turned over to Reclamation District No. 2047 for maintenance and operation, as the legally authorized function of said District; and be it further

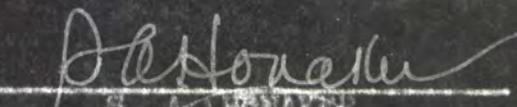
RESOLVED AND ORDERED that the West levee of the Sacramento River and the South levee of Sycamore Slough located and being near Knights Landing, lying in Reclamation District No. 730, be, and the same is hereby transferred to said Reclamation District No. 730 for maintenance and operation as the legally authorized function of said District; and be it further

RESOLVED AND ORDERED that such portion of the West levee of the Feather River from two miles north of Yuba City northerly twelve miles, as lies in Levee District No. 9 of Sutter County, be, and the same is hereby transferred to said Levee District No. 9 of Sutter County for maintenance and operation, as the legally authorized function of said District, and that the remaining portion of said section of levee, so much thereof as lies within Reclamation District No. 777, be, and the same is hereby transferred to said Reclamation District No. 777 for maintenance and operation as the legally authorized function of said District.

STATE OF CALIFORNIA )  
COUNTY OF SACRAMENTO ) SS.  
Office of The Reclamation Board )

I, S. A. HONAKER, Assistant Secretary of The Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution made by said Board at its meeting held August 21, 1946.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board this 22 day of August, 1946.

  
S. A. HONAKER  
Assistant Secretary  
The Reclamation Board



Manual No. 4

824.3 (Sacramento R.) PERKG-AA

12 August 1946

Maintenance of West Levee, Sacramento River, Colusa to Packers

The Reclamation Board  
1100 O Street  
Sacramento, California

Gentlemen:

Enlargement has been completed of the West Levee of the Sacramento River from Colusa to Packers. Therefore, in accordance with established procedure, this portion of completed levee is hereby transferred to the State of California for maintenance.

This construction forms an integral part of the Sacramento River Flood Control Project. The details and extent of the work are shown on inclosed drawing No. 50-4-2244, in seven sheets, entitled "Proposed Levee Enlargement, West Levee Sacramento River, Colusa to Packers."

There is also inclosed copy of Flood Control Regulations prescribed by the Secretary of War pursuant to the provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of Flood Control Works, of which the levee referred to is a part. In accordance with paragraph 208.10 (10) of said regulations, at a later date this office will furnish your Board and local interests with an Operation and Maintenance Manual to assist in carrying out their obligation established by these regulations.

For the records of this office acknowledgment of this letter is requested on or before 15 September 1946.

Copy of this letter with inclosures, is being transmitted to the State Engineer.

- 2 Incls.
- Drawing No. 50-4-2244  
(in 7 sheets)
- Flood Control Regulations
- Copy furnished:  
State Engineer  
(with inclosures)

Manual No. 6

cc: Cd<sub>e</sub>A(w/d.)

137

R E S O L U T I O N  
Passed and Adopted by the Reclamation Board  
August 21, 1946  
-----

WHEREAS, the Reclamation Board has heretofore approved certain items of "new construction;" consisting of (1) the enlargement and construction of the west levee of the Sacramento River from Colusa to Packers, in Reclamation District No. 2047; (2) ----- (3) -----.

WHEREAS, the War Department, Corps of Engineers, District Engineer, Sacramento District, under dates of 12 August 1946, and 13 August 1946, has notified the Reclamation Board of the completion of the three items of levee enlargement and construction, and has transferred said portions proper local interests; and

WHEREAS, the Chief Engineer of the Reclamation Board has caused to be made an inspection on the ground of the three items of new construction as specified above, and has found and determined that such work, as completed, has been prosecuted and carried out in conformance with plans and specifications therefor; now therefore be it

RESOLVED AND ORDERED that the Reclamation Board does hereby accept for the State of California the said three items of "new construction" as aforesaid, which have on the dates above set forth been transferred to said Board by the War Department, U. S. District Engineer; and be it further

RESOLVED AND ORDERED that the west levee of the Sacramento River from Colusa to Packers, together with the berms and appurtenant structures thereof, be turned over to Reclamation District No. 2047 for maintenance and operation, as the legally authorized function of said District; and be it further

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STATE OF CALIFORNIA                    )  
COUNTY OF SACRAMENTO                )    ss.  
Office of the Reclamation Board)

I, S. A. Honaker, Assistant Secretary of the Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution made by said Board at its meeting held August 21, 1946.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Reclamation Board this 22 day of August 1946.

NOTE: Only item pertaining to Unit No. 137 was copied in the above resolution.

/s/ S. A. Honaker  
/t/ S. A. HONAKER  
Assistant Secretary  
The Reclamation Board

THE RECLAMATION BOARD  
OF THE  
STATE OF 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 8 December 1951, File SPKKA 824.3 (Sac.Riv. F.C.P.), transferring to the Reclamation Board for operation and maintenance of levees and their contiguous waterway banks as follows:

a. Westerly levee of the Sacramento River, 1 to 5 inclusive from Mile 163.8 to Mile 146.4.

6 and 7, Mile 146.1 to Colusa Bridge at Mile 143.5 except 320 feet at Mile 144.2 (Colusa Warehouse).

b. -----

2. The West levee of the Sacramento River listed under Item "a" is now maintained by the State of California under Maintenance Area No. "1" in accord with the provisions of Section 8400 to 8447 of the Water Code of the State of California. -----

3. -----

4. -----

5. The Reclamation Board formally accepted levees and their contiguous waterward bank listed under items "a" and "b" for flood-control operation and maintenance on December 18, 1951.

6. -----

Yours Very truly,

THE RECLAMTION BOARD

BY /s/ A. M. Barton

A. M. BARTON

Chief Engineer and General  
Manager

NOTE: Only items pertaining to Operation and Maintenance Manual No. 137 are included in the above copy. Exception of 320 feet of levee noted under "a" above has been accepted, for which reference is made to accompanying letter of acceptance dated 25 February 1953.

EXHIBIT F St. 2 of 4

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA

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 August 1952, and 15 January 1953, wherein the following levee units were transferred to the State of California:

9 July 1952 (a)	-----
(b)	-----
15 August 1952	-----
15 January 1953	Levee enlargement and bank protection along the right bank of the Sacramento River at Colusa Warehouse, Station 36+82 to 42+36, at Mile 144.2.

Yours very truly,

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

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

NOTE: Only item pertaining to Operation and Maintenance Manual No. 137 is included in the above copy.

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA

March 9, 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 3 December 1951, 8 December 1951, 4 February 1953, and 13 February 1953, wherein the following levee units were transferred to the State of California:

3 December 1951 The westerly levee of the Sacramento River.

1. From Princeton (Mile 163.8) to Packers Warehouse (Mile 165.5).
2. -----

The Reclamation Board on behalf of the State of California, in meeting held March 4, 1953, accepted the above-mentioned levee units, together with their contiguous waterway banks, for operation and maintenance.

Yours very truly,

THE RECLAMATION BOARD

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

NOTE: Only item pertaining to Operation and Maintenance Manual No. 137 is included in the above copy.

EXHIBIT F  
Sheet 4 of 4

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

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

(1 May 19\_\_ )  
(1 Nov 19\_\_ )

Dear Sir:

The semi-annual report for the period (1 May 19\_\_ to 31 October 19\_\_ )  
(1 November 19\_\_ to 30 April 19\_\_ ) Unit No. 137 of the Sacramento River  
Flood-control Project, the west levee of the Sacramento River from the  
north end of Princeton Warehouse to Colusa Bridge is as follows:

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

(Superintendent's summary of conditions)

It is our intention to perform the following maintenance work  
in order to repair or correct the conditions indicated:

(Outline the anticipated maintenance operations for the following  
6 months.)

b. During this report period, major high water periods (water level  
at 80.0 on the gage in the Sacramento River at Gordon Ranch pumping plant  
and water level at 65.0 on the gage at Colusa Bridge) 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 trespasses upon the project right-of-way.

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

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

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

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

f. The fiscal statement of the Superintendent's operations for 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 G  
Sheet 2 of 2