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LEVELS & CHANNELS SECTION

Book I

**SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL**

**SACRAMENTO RIVER  
FLOOD CONTROL PROJECT  
UNIT NO. 138  
EAST LEVEE OF SACRAMENTO RIVER**

**FROM**

**PARROTT-GRANT LINE TO PRINCETON-AFTON ROAD**



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

# DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

SPKED-D

SUBJECT

Sacramento River Flood Control Project, California, Addition to O&M Manual Supplement

TO Chief, C-0 Division

FROM Chief, Engineering Div

DATE 10 January 1985

CMT 1

Seavey/WPC#2992z/3334

1. Inclosed are two copies of an addition to the supplements of the standard operation and maintenance manual for the Sacramento River Flood Control Project, Unit 138. The addition reflects completed emergency repairs to project levees under authority of Section 5 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session).

2. A copy of the addition has been furnished the Division Engineer. Copies of the addition and "As-Constructed" drawings have been furnished to the State Reclamation Board and the State Department of Water Resources.

1 Incl (dupe)  
as

GEORGE C. WEDDELL  
Chief, Engineering Division

cc:  
Civ Des Br  
Civ Des Sec D

CORPS OF ENGINEERS  
U. S. ARMY

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SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SACRAMENTO RIVER FLOOD CONTROL PROJECT  
UNIT NO. 138  
EAST LEVEE OF SACRAMENTO RIVER  
FROM  
PARROTT GRANT LINE TO PRINCETON-AFTON ROAD

*of MURPHY SL.*

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

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

UNIT NO. 138

EAST LEVEE OF SACRAMENTO RIVER FROM  
PARROTT-GRANT LINE TO PRINCETON-AFTON ROAD

LOCATION	ADDITION OR REVISION	DATE
1-04	Add subparagraph d	Sep 1977
2-05	Add subparagraph a & b (page 6)	Sep 1977
Exhibit B	Add drawing no. 50-4-4892	Sep 1977
Exhibit F	Add copy of letter of acceptance dated 26 Nov 1975	Sep 1977
1-04	Add subparagraph e	Nov 1983
Exhibit B	Add drawing no. 50-4-5478	Nov 1983
Exhibit F	Add copy of letter of transfer dated 10 Dec 1981	Nov 1983
1-04	Add subparagraph f	Jan 1985
Exhibit B	Add drawing no. 50-4-5601	Jan 1985
Exhibit F	Add copy of letter of transfer dated 11 May 1984	Jan 1985
1-04	Add subparagraph f	Sep 1990
Exhibit B	Add drawing no. 50-4-5758	Sep 1990
Exhibit F	Add copy of letter to transfer dated 21 Dec 1987	Sep 1990
1-04	Add subparagraph g	6 May 2010
Exhibit B	Add drawing no. A-10-4-7	6 May 2010
Exhibit F	Add copy of letter of transfer dated 18 Apr 2001	6 May 2010
Exhibit F	Add copy of letter of acceptance (no date) referencing transfer dated 18 Apr 2001	6 May 2010
Exhibit F	Add copy of letter of transfer dated 8 Dec 1951	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 22 Jul 1952	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 24 Oct 1963	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 16 Dec 1963	27 Dec 2010
1-04	Add subparagraph h	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Jan 1987	27 Dec 2010
1-04	Change second subparagraph f to subparagraph g; g and h changed to h and i.	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 10 Nov 1975	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 31 Dec 1981	8 Mar 2011
1-04	Add subparagraph j	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 21 Oct 1985	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 3 Mar 1986 (regarding transfer letter dated 21 Oct 1985)	8 Mar 2011
1-04	Add subparagraph k	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 23 Oct 1985	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 3 Mar 1986	8 Mar 2011

LOCATION	ADDITION OR REVISION	DATE
	(regarding transfer letter dated 23 Oct 1985)	
1-04	Subparagraph f – corrected contract no. (DACW05-83-C-0036 changed to DACW05-84-C-0036)	17 Oct 2011

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### EXHIBITS

<u>Exhibit</u>	<u>Description</u>	
A	Flood Control Regulations	Unattached
	(Contained in Standard Manual)	
A-1	Location Map	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 7
F	Letter of Acceptance by State Reclamation Board	2 Sheets
G	Semi-Annual Report Form	Sheets 1 and 2

SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SACRAMENTO RIVER FLOOD CONTROL PROJECT  
UNIT NO. 138  
EAST LEVEE OF SACRAMENTO RIVER  
FROM  
PARROTT GRANT LINE TO PRINCETON-AFTON ROAD

SECTION I

INTRODUCTION

101. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project which includes the east levee of the Sacramento River from Parrott Grant Line to Princeton-Afton Road. The low water channel of the Sacramento River meanders through a leveed overflow area about one mile in width. The levee of this unit lies within Levee District No. 3, in Glenn County, California, and in the general vicinity of the town of Butte City. The location of the completed unit covered by this manual is shown on Exhibit A-1.

1-02. Protection Provided. The levee of Unit No. 138 provides protection to adjacent agricultural land and the town of Butte City 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 in the Sacramento River varies from elevation 106.3 at Parrott Grant Line to elevation 93.6 at the Princeton-Afton Road. (Elevations are referred to Corps of Engineers datum). The levee project grade along the Sacramento River provides a freeboard which equals or exceeds 3 feet and the project design capacity is 160,000 cubic feet per second within this unit.

1-03. Project Works. The project works covered by this manual includes the east levee of the Sacramento River extending from a point located about 2,000 feet upstream from the south boundary of Parrott Grant Line southerly (downstream) 9.0 miles to the Princeton-Afton Road, as constructed by local interests and as enlarged and/or setback by the Corps of Engineers to adopted grade and section. The approximate river mileage is from mile 176.5 to mile 164.4.

1-04. Construction Data and Contractor. Unit No. 138 of the flood control works described in this manual forms an integral part of the Sacramento River Flood Control Project. In general, all construction features are based on standard plans and specifications, details being

fully covered in the drawing (See Exhibit B).

Construction work required to bring locally built levees to project grade and section was accomplished under the following contracts:

a. Bank protection work at miles 168.6 and 168.9 was completed in 1940 under Job order No. 201.

b. Levee enlargement of east levee along Sacramento River from Princeton-Butte City Road to Parrott Grant Line was constructed under Contract No. W-1105-eng-2840 by Paulos & McEven, contractors, and completed on 19 July 1941.

c. Surfacing of levee crown for patrol road purposes within this unit was constructed under contract No. DA-04-167-eng-828 by Browne and Krull, contractor, during the period from 16 July 1952 to 2 December 1952.

d. Bank protection and selective clearing on the left bank of the Sacramento River at Site Miles 187.4, 189.5 and Left bank of Murphy Slough (Unit No. 27) was accomplished under Contract No. DACW05-75-C-0085 by Luhr Bros. Inc. during the period from 21 July 1975 to 15 October 1978. Specification No. 4461, Drawing No. 50-4-4892.

e. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Mile 168.4 L (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. 50-4-5478.

f. Emergency repairs to project levees at Murphy Slough were accomplished under Contract No. ~~DACW05-83-C-0036~~ DACW05-84-C-0036 by Kemen and Son, Inc. Specification No. 6982/6894, Drawing No. 50-4-5601.

g. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 156.1 L, 159.3 L, and 159.8 L (a portion of Contract 40A) was accomplished under Contract No. DACW05-86-C-0046 by K2B Contractors, Inc. Specification No. 7875, Drawing NO. 50-4-5758.

h. Emergency repair (PL 84-99) of damaged rock revetment sites along left bank of Sacramento River at River Miles 186.78-186.87, 186.83-187.00, 189.05-189.30, and 189.57-189.65, Butte Basin Maintenance Area, was accomplished under Contract No. DACW05-98-C-0055 by Zerimar, contractor. Construction was completed on 28 September 1998. Specification No. 9960E, Drawing No. A-10-4-7.

i. Emergency repairs consisting of restoration of bank protection at three sites along the left bank of Sacramento River, Mile 187.1, was completed on 10 Nov 1986 under Contract No. DACW05-86-C-0114. Drawing No. 50-4-5774.

j. Bank sloping, stone protection and levee setbacks on the left bank of the Sacramento River, Site Mile 192.6, was accomplished under Contract No. DACW05-84-C-0112. Specification No. 7053, Drawing No. 50-4-5712.

k. Bank sloping and stone protection along the left bank of the Sacramento River, Site Miles 178.5 and 187.1 (Sites 1 and 2) was accomplished under Contract No. DACW05-85-C-0059. Specification No. 7377, Drawing No. 50-4-5723.

1-05. Flood Flows. For purposes of this manual, the term “flood” or “high water period” shall refer to flows when the water surface reaches or exceeds a reading of 89.0 on the continuous water stage recorder and staff gage located on the left bank of the Sacramento River about 200 feet upstream from the State Highway Bridge near Butte City. (Staff gage is set on U.S. corps of Engineers datum).

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

1-07. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining the completed works was officially accepted by the Reclamation Board of the State of California on 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 easterly side (left bank) of the Sacramento River from Parrott Grant Line to Princeton-Afton Road. The existing levee of this unit has been rebuilt to adopted grade and section by new construction. Crushed rock surfacing was applied to the crown of the levee, as indicated on Drawing No. 50-4-2897, sheets 1, 2 and 4 of Exhibit B. Required turnouts and road approaches were also provided. For more complete detail of items included in construction of above mentioned levee, refer to the "As Constructed" drawings of Exhibit B.

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

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

#### 2-02. Drainage and Irrigation Structures

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

(Stations 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
1129+75	14" steel		Pump R.S., concrete spillbox L. S.	
1142+10 1148+70	10" C.M.P. 24" steel	100	Concrete saddle and apron 1 - iron cutoff plate	96.0
1149+00 1152+95 1155+70 1178+80	10" C.M.P. 2" steel 6" steel 16" steel	100	Concrete spillbox L.S.	

Notes pertaining to gates and abbreviations:

Calco gate Model No. 100 is placed on the outlet end of pipes. It closes against face pressures, and opens automatically to permit outflow whenever the pressure is reversed by a change in water levels.

Abbreviations are as follows:

C.M.P. = Corrugated metal pipe

R. S. = Riverside

L. S. = Landside

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

- (1) Maintenance - paragraph 5-02 of the Standard Manual.
- (2) Check Lists - Exhibit E of this Supplement Manual.
- (3) Operation - paragraph 5-04 of the Standard Manual.
- (4) Additional Requirements - paragraph 5-05 of the Standard Manual.
- (5) Safety Requirements - paragraph 5-06 of the Standard Manual.

## 2-03. Channel

a. Description. The floodway of the Sacramento River within this unit consists of a low water channel which meanders through an overflow area about one mile wide. Floods are confined between levees along both banks of the floodway. This portion of the Sacramento River from the south line of the Parrott Grant to the Princeton-Afton Road, has a project design capacity of 160,000 cubic feet per second and the levee provides for a free board of 3 feet or more.

Since the channel of the Sacramento River from the Parrott Grant Line to Princeton-Afton Road is utilized for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channel shall be limited to flood control.

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

- (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 89.0 on the gage at Butte City 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 Butte City reaches the gage reading indicated above. The Superintendent shall cause readings to be taken at said gage at intervals of two to four hours during the period when the water surface is above the flood-flow stage indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-06 of the Standard Manual.

#### 2-04 Miscellaneous Facilities

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

(1) Bridge and Ferry Crossing.

(a) Princeton-Butte City Ferry crossing at approximate station 965+00.

(b) County road (Princeton to Biggs Road) bridge crossing at Butte City.

(2) Miscellaneous Structures.

(a) Wood warehouse with concrete floor at elevation 95.3 - from station 1143+02 to 1147+92.

(b) Steel sheet piling from station 1136+00 to 1139+80.

(c) Reinforced concrete retaining wall from station 1153+30 to 1153+70.

(3) Utility Relocation. None.

(4) Hydrographic Facility. Continuous water stage recorder and staff gage located on the left bank of the Sacramento River about 200 feet upstream from State Highway Bridge near Butte City. This gage is to be maintained by the State Division of Water Resources and U.S.G.S.

b. The 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 water-side 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 Murphy Slough Left Bank)

### SECTION III

#### REPAIR OF DAMAGE TO PROJECT WORKS AND

#### METHODS OF COMBATING FLOOD CONDITIONS

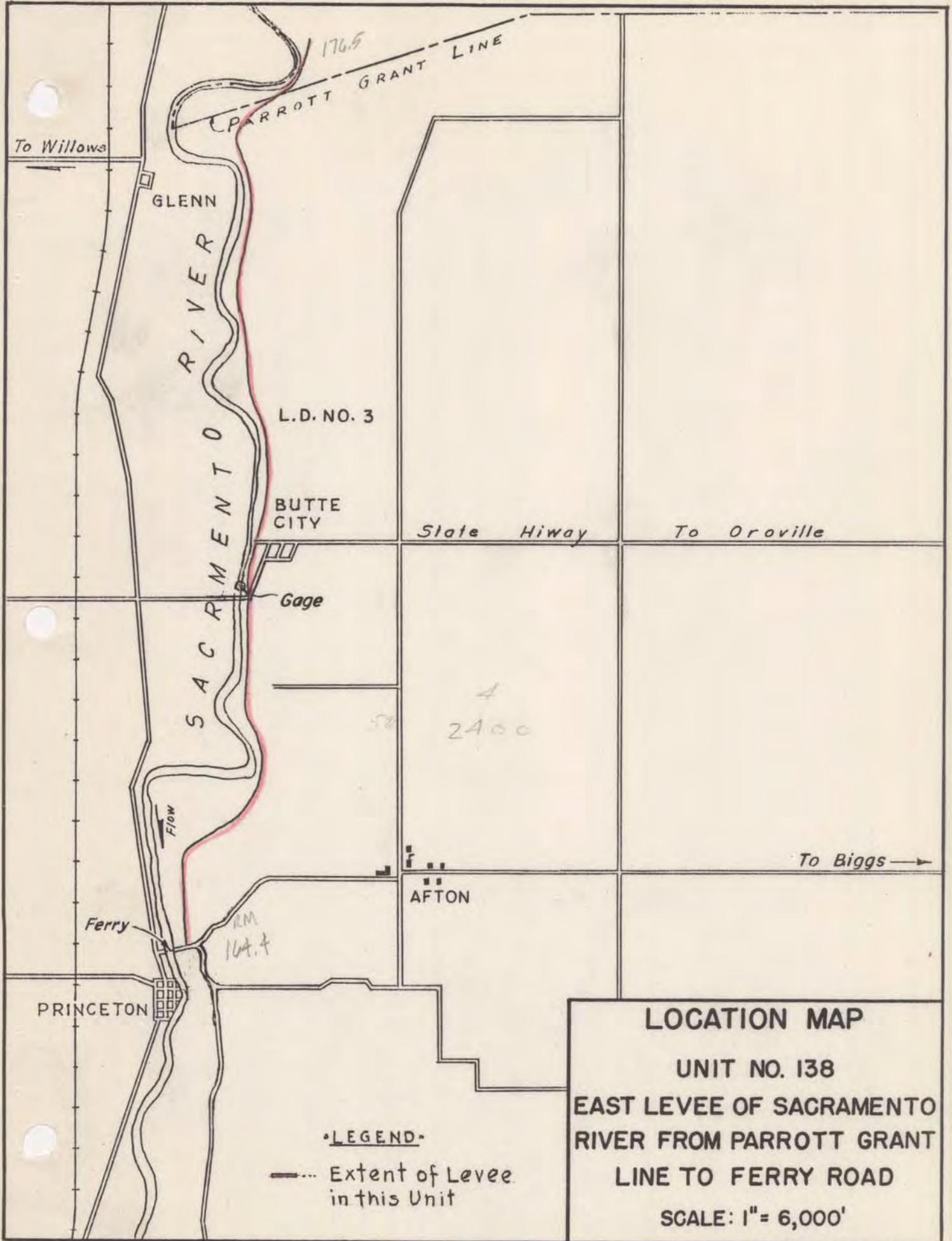
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Division of Water Resources, State of California who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

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

EXHIBIT A

FLOOD CONTROL REGULATIONS

(See Standard Manual)



To Willows

GLENN

SACRAMENTO RIVER

L.D. NO. 3

BUTTE CITY

State Hiway

To Oroville

Gage

2400

Flow

To Biggs →

Ferry

AFTON

RM 164.4

PRINCETON

• LEGEND •

—•—•— Extent of Levee in this Unit

LOCATION MAP

UNIT NO. 138

EAST LEVEE OF SACRAMENTO RIVER FROM PARROTT GRANT LINE TO FERRY ROAD

SCALE: 1" = 6,000'

EXHIBIT B

“AS CONSTRUCTED”  
DRAWINGS

See separate folder for the following drawings:

<u>File No.</u>	<u>Title</u>
6-4-1464	Sacramento River, Proposed Bank Protection at Butte City, Miles 168.6 & 168.9 in 1 sheet.
50-4-1716	Proposed Enlargement of East Levee along Sacramento River – Princeton-Butte City Road to Parrott Grant Line, Sheets 1 to 6, incl.
50-4-2897	Sacramento River Project – Surface Levee Crown for Patrol Road Purposes, Sheets 1, 2, and 4.
6-6-2059	Channel Clearing, Colusa to Butte City (for drawings see O&M Manual No. 136).
50-4-4892	Bank Protection, Various Locations, on Sacramento and Bear Rivers and Elder Creek in 20 sheets.
50-4-5478	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 110.0 to Mile 184.0, in 33 sheets.
50-4-5601	Emergency Levee Repairs, Murphy Slough Levee, in one sheet.
50-4-5758	Bank Protection, Contract 40a, Right and Left Banks, Sacramento River Mile 132.4 to Mile 179.5, in 68 sheets.
A-10-4-7	Emergency Repair of Damaged Rock Revetment Sites at Butte Basin Overflow Structures, in 6 sheets.

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

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(See Standard Manual)

EXHIBIT 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. 138

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

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

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

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

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face 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. 138

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. 138

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

See drawings of Exhibit "B" for location of stations

(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 headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken since last Inspection	(h) Comments
1129+75 1142+10 1148+70 1149+00 1152+95 1155+70 1178+80	left " " " " "						

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

STATE RECLAMATION BOARD LETTERHEAD

February 25, 1953

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

Dear Sir:

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

9 July 1952 (a) \_\_\_\_\_  
\_\_\_\_\_

9 July 1952 (b) The easterly levee along the Sacramento River (Part  
"B" of Spec. #1636, near Butte City)  
1. From Mile 164.4 to Mile 168.5  
2. From Mile 168.9 to Mile 176.5

15 Aug 1952 \_\_\_\_\_  
\_\_\_\_\_

15 Jan 1953 \_\_\_\_\_  
\_\_\_\_\_

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

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

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

NOTE: Only items pertaining to Unit No. 138 were copied in above letter.

STATE RECLAMATION BOARD LETTERHEAD

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 Dec 51, 8 Dec 51, 4 Feb 53 and 13 Feb 53, wherein the following levee units were transferred to the State of California:

3 Dec 51 \_\_\_\_\_

8 Dec 51 The easterly levee of the Sacramento River.  
1. From Mile 168.5 to Mile 168.9 (at  
Butte City).

4 Feb 53 \_\_\_\_\_

13 Feb 53 \_\_\_\_\_

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

By \_\_\_\_\_ /s/  
D. M. CARR

NOTE: Only item pertaining to Unit No. 138 was copied in above letter.

REGISTERED MAIL  
Receipt Receipt  
Requested

Letter No. 12

12

SPKKA 824,3(Sac. Riv. F.C.P.)

8 DEC 1951

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento 16, California

Gentlemen:

Reference is made to your letter of 22 June 1951 acknowledging that certain reaches of the levees of the Sacramento River Flood Control Project and the waterway bank contiguous to said levee reaches meet the requirements of the project as authorized prior to the Flood Control Act of 1944.

The levee reaches in question are located as follows:

140. a. Northerly levee of the American River from Jibboom Street Bridge to Sacramento River. 118.2 (P)

b. Easterly levee of the Sacramento River.

Reach 15 141. (1) American River to Natones Out. 60.25 to 79.0 124

Reach No. 11 142. (2) At Moulton Weir. (man 2) 154

143. (3) Mile 158.5 (North End Moulton Weir) to Mile 164.4 (Princeton Ferry). (man 2) ? 134

144. (4) Mile 168.5 to Mile 168.9 (at Dutch City). (man 2) ? 138

c. Westerly levee of the Sacramento River.

145. (1) Mile 59.9 to Mile 60.75. 116

146. (2) Mile 61.8 to Mile 62.65 (at Drye Bend) 116

62.65

Accepted by letter dated 9 March 1953

Letter 12 Items 140 to 198

12

SPKRA 024,5 (Sac. Riv. F.C.P.)  
The Reclamation Board

Letter No. 12

12

c. Westerly levee of the Sacramento River, (cont'd)

- ✓ 147. (8) Mile 62.65 to Mile 63.1 (South End Sacramento Weir). 116
- ✓ 148. (4) At Sacramento Weir. 158
- ✓ 149. (5) Mile 63.5 (North End Sacramento Weir) to Mile 67.11. 122
- ✓ 150. (6) Mile 68.42 to Mile 70.9. 122
- ✓ 151. (7) Mile 76.5 to Mile 81.7 (East End Fremont Weir). 123
- ✓ 152. (8) Along Fremont Weir. 157
- ✓ 153. (9) Mile 84.0 (West End Fremont Weir) to Mile 85.3. 128
- ✓ 154. (10) Mile 85.5 to Mile 85.9. 128
- ✓ 155. (11) Mile 87.6 to Mile 88.4. 128
- ✓ 156. (12) Mile 89.2 to Mile 89.8 (Knights Landing Highway Bridge). 128
- ✓ 157. (13) Mile <sup>89.2</sup>89.8 (Knights Landing Highway Bridge) to Sycamore Slough. 89.9 128
- ✓ 158. (14) Mile <sup>100.6</sup>100.6 to Mile 101.4. 128
- ✓ 159. (15) Mile 110.9 to Mile 111.2. 128

Reach No. 5

Reach No. 4

d. Westerly levee of the Feather River.

- Reach 39 ✓ 160. (1) Sutter Bypass to Nicolaus Bridge. 143
- ✓ 161. (2) From a point 3.31 miles northerly from Nicolaus Bridge to the Fifth Street Bridge between Marysville and Yuba City. 143, 144
- Reach 38 ✓ 162. (3) From a point 1,400 feet northerly from the Fifth Street Bridge between Marysville and Yuba City to Station 774+00 "Y.C.N.B." Traverse. 144
- ✓ 163. (4) From a point east of Station 1188+00 "Y.C.N.B." Traverse to high ground just northerly from the Western Canal Headgate. 144

- Reach 42 ✓ 164. a. Easterly levee of the Sacramento River from Natomas Cut to Feather River. 141.1

12

Letter No. 12

12

f. Easterly levee of the Feather River.

- Reach 42 ✓ 165. (1) Sacramento River to a point 2.37 miles southerly from Nicolaus Bridge. 141 Pt 1
- Reach 41 ✓ 166. (2) Bear River to Mile 14.4. } 145
- ✓ 167. (3) Mile 14.4 to Mile 14.7.
- ✓ 168. (4) Mile 14.7 to Mile 21.5.
- ✓ 169. (5) Mile 21.5 to Mile 22.75.
- ✓ 170. (6) Mile 22.75 to Mile 26.5 (Point where levee and S.N.R.R. meet). 145

g. Levees protecting the City of Marysville. All 147

- Reach 43 ✓ 171. (1) From the W.P.R.R. at Simerly Slough easterly to the Yuba River.
- ✓ 172. (2) Along the Yuba River from the "D" Street Bridge to the back levee near the Valley Meat Company.

h. Levees protecting Reclamation District No. 10.

- Reach No. 40 ✓ 173. (1) Northerly levee of Simerly Slough from the W.P.R.R. to the S.P.R.R. 151
- ✓ 174. (2) Easterly levee of the Feather River from Simerly Slough to a point 4.3 miles northerly from Simerly Slough. 151

Reach 46 ✓ 175. i. Northerly levee of the Yuba River from the back levee of the City of Marysville to a point 1.3 miles easterly from said back levee. 147

Reach 47 ✓ 176. j. Southerly levee of the Yuba River from Feather River (i.e. S.N.R.R.) easterly to the S.P.R.R. Main Line. 147

45 ✓ 177. k. Northerly levee of Bear River from Feather River easterly to the W. P.R.R. Interceptor. 145

45 ✓ 178. l. Westerly levee of the W.P.R.R. Interceptor and Clark Slough Interceptor (i.e. back levee of Reclamation District No. 784) from Bear River to the southerly end of the Clark Slough Interceptor. 145

12

SPIKA 824.3 (Sac. Riv. P.C.P.)  
The Reclamation Board

Letter No. 12

12

m. Southerly levee of the American River.

Reach  
No. 25 ✓

- ✓ 179. (1) Sixteenth Street Bridge to the S.N.R.R. 118.1
- ✓ 180. (2) From a point 800 feet easterly from the W.P.R.R. to Mayhew Station. 118.1

n. Westerly levee of the Yolo Bypass.

- ✓ 181. (1) Sacramento River to Knights Landing Ridge Cut. 127
- ✓ 182. (2) Knights Landing Ridge Cut to the northeast corner of the Cache Creek Settling Basin. 126
- 28 ✓ 183. (3) S.N.R.R. Woodland Branch to a point 1.6 miles southerly from said railroad. 121
- 28 ✓ 184. (4) From a point 1.6 miles southerly from the S.N.R.R. Woodland Branch to the Willow Slough Pipes. 121
- 28 ✓ 185. (5) From a point 1.48 miles southerly from the Willow Slough Pipes to a point 1.9 miles southerly from said pipes. 121
- 28 ✓ 186. (6) From a point 1.9 miles southerly from the Willow Slough Pipes to the Willow Slough Interceptor. 121
- 28 ✓ 187. (7) From the Willow Slough Interceptor to Highway U.S. 40. 120
- ✓ 24 ✓ 188. (8) From Highway U.S. 40 to Putah Creek. 119

27 ✓ 189 o. Easterly and Westerly training levees of Cache Creek Settling Basin from Cache Creek southerly. 126

28 ✓ 190 p. Northerly and Southerly levees of the Willow Slough Interceptor from the S.P.R.R. to the Yolo Bypass. 120

29 ✓ 191 q. Northerly levee of Putah Creek from Yolo Bypass westerly to high ground. 119

✓ 192 r. Southerly levee of Putah Creek from high ground on Dixon Ridge westerly to high ground. 119

s. Southerly levee of Knights Landing Ridge Cut. 127

- 26 ✓ 193 (1) From Yolo Bypass westerly 600 feet. Also covered under Unit 96-A
- 26 ✓ 194 (2) { From a point 2,500 feet westerly from Yolo Bypass to a point 2,900 feet westerly from Yolo Bypass. 127  
Also covered under 96-A

12

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

Letter No. 12

12

s. Southerly levee of Knights Landing Ridge Cut. (cont'd)

- 26 ✓ 195 (S) { From a point 3,300 feet westerly from Yolo Bypass to a point 7,100 feet westerly from Yolo Bypass. 127  
Also covered under Unit No. 96-A
- 35 ✓ 196 t. That portion of the back or westerly levee of Hastings Tract which runs east and west along the County Road for a distance of approximately one mile. 107
- ✓ 197 u. Northerly levee of Sycamore Slough from Sacramento River to Knights Landing Outfall Gates. 130
- ✓ 198 v. Southerly levee of Sycamore Slough from Sacramento River to Knights Landing Outfall Gates. 132

The records of this office show that your Board has accepted the levees and/or works covered by Items b.(1), b.(2), b.(3), c.(2), c.(4), c.(8), c.(11), c.(12), c.(14), d.(1), d.(3), d.(4), f.(3), f.(5), g., h., i., l., m., n.(1), n.(2), n.(3), n.(6), n.(7), n.(8), o., p., q., r. and s.(1) above, as complete. Accordingly the waterway bank contiguous to said Items is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items a., b.(4), c.(1), c.(3), c.(5), c.(6), c.(7), c.(9), c.(10), c.(13), c.(15), d.(2), e., f.(1), f.(2), f.(4), f.(6), j., k., n.(4), n.(5), s.(2), s.(3), t., u. and v., above, although complete has not been formally transferred as contemplated by the Project documents. Accordingly the levee covered by said Items, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

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

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

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

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

12

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 Sidde 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

SPKRO-C

24 October 1963

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

Gentlemen:

Reference is made to the joint inspection made on 22 October 1963, of flood control work pertaining to the Sacramento River Flood Control Project for the purpose of transferring it to the State of California for operation and maintenance.

The above work designated as Unit No. 670, consists of channel clearing in the Sacramento River at Sites A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, and X, between Colusa and Butte City, California. This work was completed on 18 October 1963, in accordance with Specification No. 2775, Contract No. IA-04-167-CIVENG-63-59 and Drawing No. 6-6-2059.

The flood control work described above now meets the requirements of the Sacramento River Flood Control Project. Therefore, said flood control work, together with the waterway banks contiguous thereto are transferred to the State of California for operation and maintenance.

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

*Unit 136, 138*

*670*

REGISTERED  
RETURN RECEIPT REQUESTED

*670*

SPKDD-C  
The Reclamation Board

24 October 1963

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

Sincerely yours,

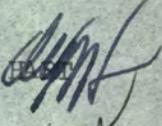
F. N. ANDERSON  
EXECUTIVE ASSISTANT  
FOR AND IN THE TEMPORARY ABSENCE OF  
C. R. TEAGLE  
Lt Col, CE  
Acting District Engineer

~~1~~ Incl  
F.C. Regulations

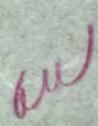
~~Copy~~ furnished:  
Dept Water Resources  
23rd & "R" Streets  
Sacramento, Calif.  
O.C.E.  
S.P.D.

~~cc:~~ Engr Div, Lev & Chan  
Engr Div, Prog Dev Br  
F & A Br  
Northern Area Ofc

  
THOMPSON/pp

  
TEAGLE

Unit 136138



## THE RECLAMATION BOARD

1215 O STREET • SACRAMENTO 95814



STANLEY W. KRONICK, *President*  
 J. J. MADIGAN, *Vice Pres.*  
 WALLACE McCORMACK, *Secy.*  
 GEORGE W. NICKEL, JR.  
 CHARLES J. MATHEWS  
 HAROLD J. O'BANION  
 MAX S. VANN, SR.  
 COL. A. E. McCOLLAM, *General Manager*

December 16, 1963

Refer to: 7001.70.301

*Cont # 63-59*

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

Dear Sir:

Reference is made to your letter of October 24, 1963, concerning transfer to the State of California of channel clearing work in the Sacramento River at sites A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, between Colusa and Butte City, California in accordance with Specification No. 2775.

The Reclamation Board, at its meeting of November 15, 1963, formally accepted the above referred to channel clearing work for operation and maintenance.

Sincerely yours,

*A. E. McCollam*  
 A. E. McCOLLAM  
 General Manager

HSH:gg

*12/23/63*  
 Copies sent to -  
 Barsdale  
 Jensen  
 Northern Area Ofc.

*Unit 136, 138*

*Transfer*

SPKCO-0



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

*Done*

Gentlemen:

Reference is made to the joint inspection of 5 November 1975, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 27) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Murphy Slough left bank and Sacramento River left bank at Site Miles 187.4 and 189.5. The sites, as listed on the inclosure, were completed on 5 November 1975 in accordance with Specification No. 4461, Contract No. DACW05-75-C-0085, Drawing No. 50-4-4892.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2904(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 10 November 1975 to the State of California for operation and maintenance.

*llh*  
ROMPALA/  
klc

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 138 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

*llh*  
McBRIDE

Sincerely yours,

A. SMITH

1 Incl  
As stated

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

HENSON

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

PROBASCO

ROCKWELL  
*llh*

→ OCE  
→ SPD

*Unit 138*

cc:

→ Flood Control Unit  
→ Valley Res Ofc

→ Engr Div (Leve & Chan)  
→ (Prog & Dev)

→ F&A (Kalal)

*copy to Kerninger*  
*11-14-75*  
*llh*

SUMMARY OF PORTION OF SACRAMENTO  
RIVER BANK PROTECTION UNIT #27

Murphy Slough Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
-	26+00 to 29+00	300'

Sacramento River Left Bank

187.4	0+00 to 26+00	2600'
189.5	6+00 to 36+00	3000'

*Butte Co*

*Unit 138*

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

C  
O  
P  
Y

C  
O  
P  
Y

November 26, 1975

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

Dear Sir:

The Reclamation Board at its regular meeting of November 21, 1975, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 27 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of November 10, 1975.

The flood control work consisted of selective clearing, bank sloping placement of stone bank protection, construction of access roads, and such miscellaneous work as necessary to complete the construction on the Murphy Slough Left Bank site and at Sites Miles 187.4 and 189.5 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4892, Specification No. 4461, and Contract No. DACW05-75-C-0085, insofar as could be determined visually.

Sincerely,

/s/ P.C. Walters  
P.C. WALTERS  
Chief Engineer and General Manager

Exhibit F



C  
O  
P  
Y

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

C  
O  
P  
Y

REPLY TO  
ATTENTION OF SPKCO-0

10 December 1981

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

Members of the Board:

This is in regard to the joint inspection of 4 December 1981, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 35), to the State of California for operation and maintenance.

The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 164.7, 176.6 and 177.3 and left bank at site Mile 168.4. The sites described in the inclosure were completed on 4 December 1981 in accordance with Contract No. DACW05-81-C-0036, Specification No. 5472 and Drawing No. 50-4-5438.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of 4 December 1981 to the State of California for operation and maintenance.

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

Sincerely,

1 Incl  
As stated

PAUL F. KAVANAUGH  
Colonel, CE  
District Engineer

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

EXHIBIT F

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

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



DEC 31 1981

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

Dear Colonel Kavanaugh:

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

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 164.7, 176.6 and 177.3 Right Bank and 168.4 Left Bank, Sacramento River.

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

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

Sincerely,

*Eldon E. Rinehart*

for ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED



*Units 138, 139, 140*

*Copy to Nelson  
1/1/82  
E. Rinehart*



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

REPLY TO  
ATTENTION OF

May 11, 1984

Navigation and Flood Control Unit

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

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs at Murphy Slough under authority of Section 5 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 8, 1983 with follow on repairs completed on April 27, 1984 and consisted of restoring the Murphy Slough Levee (State of California Maintenance Area #15) in accordance with Contract Number DACW05-84-C-0036 and Drawing Number 50-4-5601. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Bank Protection Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 138, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

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

EXHIBIT F

JAN 1985

File: Transfer File for Sac. R.  
Bank Mt. Project

Check file

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

**CERTIFIED**  
No. 782968  
RETURN RECEIPT REQUESTED

October 21, 1985

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 February 6, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 38A), to the State of California for Operation and Maintenance. The flood control work consists of levee setbacks, bank sloping and placement of stone protection on the Sacramento River left bank at Site Mile 192.6. The site was completed during the past construction season in accordance with Contract No. DACW05-84-G-0112, Specification No. 7053 and Drawing No. 50-4-5712.

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. Deficiencies noted during the joint inspection have been corrected and the work now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of October 9, 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 No. 138, Sacramento River Flood Control Project. Copies will be furnished for your office at a later date.

Sincerely,

WAYNE J. SCHOLL  
Colonel, Corps of Engineers  
District Engineer

RCK  
ROMPALA/jb

RCK  
KELLY

HEIN

FAST

SCHOLL

Unit 138

Copy Furnished:

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

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

Clark  
File

**CERTIFIED**  
No. **782673**  
RETURN RECEIPT REQUESTED

October 23, 1985

Navigation and Flood Control

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

not

Members of the Board:

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

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of October 16, 1985 to the State of California for operation and maintenance.

RCK  
POMPALA/jb

RCK  
KELLY

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

A. SMITH

Sincerely,

HELM

FAST

WAYNE J. SCHOLL  
Colonel, CE  
District Engineer

WWS  
138/140

DENNIS

SCHOLL

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

Copy furnished: **(IF)**

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

**(IF)**

*Goodnight*

MAR 3 1986

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

Dear Colonel Scholl:

Reference is made to your letter of October 23, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 39 to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 178.5 and 187.1, Left Bank (Sites 1 and 2), and 179.4 and 188.5, Right Bank, Sacramento River.

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

The Reclamation Board, at its regular meeting of January 17, 1986, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance.

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

Sincerely,

Original signed by

Robert L. Manning

*for*  
RAYMOND E. BARSCH  
General Manager

bcc: Gene Snow  
Robert Bailey

RRGoodnight:pva

*Chas 138, 410*

*6212*

*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

January 20, 1967

Navigation and Flood Control Unit

The Reclamation Board  
State of California  
1416 - 9th Street, Room 433-6  
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to project works under authority of Section 9 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 10, 1966, and consisted of restoring the bank protection at three sites on the Sacramento River left bank Mile 187.1, in accordance with Contract Number DACW03-86-C-0114 and Drawing Number 50-4-5774. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Bank Protection Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 136, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

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

Wayne J. Scholl  
Colonel, Corps of Engineers  
District Engineer

Copies furnished:

DWE, ATTN: J. Angel  
DWR, ATTN: G. Snow  
Commander, South Pacific Division, ATTN: SPDCO-0

Mc 1-14  
ROMPALA/th

RCK  
KELLY

AS  
A. SMITH

H  
HELI

J  
FASE

DENNIS

McCOLLAM

SCHOLL  
WANG #6289a

Wm 7/38



December 21, 1987

Navigation and Flood Control Unit

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

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 147.1, 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, 138.1, 139.3 and 159.8.

(1145)

*M 12-23*  
*ROMPALA*

The work was completed on December 18, 1987, in accordance with Contract Number DACW05-86-C-0095, Specification Number 7875 and Drawing Number 30-4-57

*RK*  
*KELLY*

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-543, July 14, 1960), and Section 2304(a), title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of December 21, 1987 to the State of California for operation and maintenance.

*A. SMITH*

*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.

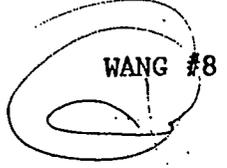
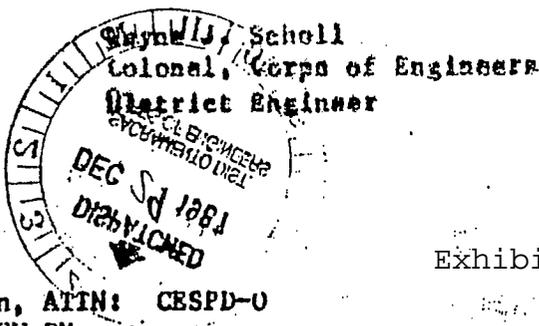
*DENNIS*

*CZARZAS*

*SCHOLL*

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

Sincerely,



Copies Furnished:

DWA, ATTN: G. Snow  
DWR, ATTN: G. Qualley  
Commander, South Pacific Division, ATTN: CBSPD-0  
Commander, USACE, ATTN: DAEN-CECW-0M

Exhibit F

*Me SRBAY*

Navigation and Flood Control Unit

APR 18 2001

Mr. Peter D. Rabbon, General Manager  
The Reclamation Board  
State of California  
1416 - 9<sup>th</sup> Street, Room 1601  
Sacramento, California 95814

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the left bank of the Sacramento River at R.M 186.78-186.87, R.M 186.83-187.00, R.M. 189.05-189.30, and R.M. 189.57-189.65, SAC 58 Butte Basin Maintenance Area, to the State of California for operation and maintenance.

The work consisted of restoring the left waterside bank of the Sacramento River damaged by the January 1997 Flood by backfilling scoured areas, placing rock revetment along toe and embankment of the left bank, and form rock fish groins 50-foot O.C. on the embankment above the water line, placed one-foot soil layer on top of revetment and hydroseeded area. The work as listed in the enclosure was completed on September 28, 1998, in accordance with Specification No. 9960E, Drawing File No. A-10-4-7, Contract No. DACW05-98-C-0055

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the Operations and Maintenance Manual for the Sacramento River Flood Control System in SAC 58 Butte Basin. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of the date of this letter 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, Sacramento River Flood Control Project, which is being transferred under separate cover.

Sincerely,

Michael J. Walsh  
Colonel, Corps of Engineers  
District Engineer

*JM*  
MINTON/dd

*TAVANAI*  
TAVANAI

*SANDNER*  
SANDNER

*WINTON*  
WINTON

DURHAM-AGUILERA

*BOYLE*  
BOYLE

*KORMAN*  
KORMAN

*CHARLTON*  
CHARLTON

*O'BRIEN*  
O'BRIEN

*WALSH*  
WALSH

Enclosure

- cc:
- CESPK-CO-E
- CESPK-ED
- CESPK-ED-D
- CESPK-PM
- CESPK-CO-RV

Exhibit F

**THE RECLAMATION BOARD**

1416 NINTH STREET, ROOM 1601  
SACRAMENTO, CA 95814  
(916) 653-5434 FAX: (916) 653-5805  
Permits: (916) 653-5726 FAX: (916) 653-5805



Colonel Michael J. Conrad, Jr.  
District Engineer  
Sacramento District  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

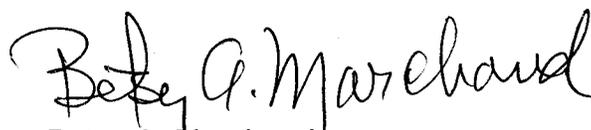
Dear Colonel Conrad:

In your letter of April 18, 2001 to The Reclamation Board, the U.S. Army Corps of Engineers transferred the repaired left bank of the Sacramento River at River Mile 186.78 to RM 186.87, RM 186.83 to RM 187.00, RM 189.05 to RM 189.30, and RM 189.57 to RM 189.65 (in the Butte Basin Maintenance Area) to the State of California for operation and maintenance. You advised the Board that the completed repairs would be added by amendment to the Operation and Maintenance Manual, Sacramento River Flood Control Project. We understand that the repairs were completed in accordance with the original plans and specifications. We acknowledge receipt of the as-built drawings and will forward a copy to the Department of Water Resources.

The Board, on behalf of the State of California, accepted the completed repairs at its September 21, 2001 meeting and transferred the completed repairs to DWR. Until the Corps provides the O&M Manual amendment, DWR will perform operation and maintenance in accordance with the current manual.

If you have any questions, you may contact Peter Rabbon, General Manager of The Reclamation Board at (916) 653-5434, or your staff may contact Debbie Carlisle, Chief of the DWR's System Integrity Section, Division of Flood Management, at (916) 574-0364.

Sincerely,

  
Betsy A. Marchand  
President

cc: (See attached list.)

Exhibit F



cc: Mr. Kell Cloward  
Readiness Branch  
Sacramento District  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Mr. Thomas M. Hannigan, Director  
Department of Water Resources  
1416 Ninth Street, Room 1115-1  
Sacramento, California 95814

Mr. Ken Dickerson, Superintendent  
Sutter Maintenance Yard  
Department of Water Resources  
Post Office Box 40  
Sutter, California 95982-0040

Exhibit F

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

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

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

Dear Sir:

The semi-annual report for the period (1 May 19\_\_ to 31 October 19\_\_ ) (1 November 19\_\_ to 30 April 19\_\_ ) Sacramento River Flood Control Project Unit No. 138, the east levee of the Sacramento River from Parrott Grant Line to Princeton-Afton Road of the Sacramento River Flood Control Project is as follows:

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

(Superintendent's summary of conditions)

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

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

b. During this report period, major high water periods (water level at 89.0 on the gage at Butte City) 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 the current report period is as follows:

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

Respectfully submitted,

\_\_\_\_\_  
Superintendent of Works

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

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