

SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL

SACRAMENTO RIVER  
FLOOD CONTROL PROJECT

UNIT NO. 103

BOTH LEVEES OF GEORGIANA SLOUGH  
AND  
EAST LEVEE OF SACRAMENTO RIVER  
FROM  
WALNUT GROVE TO ISLETON



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

KED-F

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

Chief, C-Ops Division

Chief, Engineering  
Division

23 February 1983  
Kanenaga/dc/3333

1. Inclosed for your use and files are two copies of an addition to the supplement to the standard operation and maintenance manual for the Sacramento River Flood Control Project, Unit 103. The addition reflects completed construction work for Unit 32 of the Sacramento River Bank Protection Project.
2. A copy of the addition has been furnished South Pacific Division. 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:  
Levees (w/o incl)

SPKGE

8 June 1954

SUBJECT: Operation and Maintenance Manuals

MEMORANDUM TO: CHIEF, CONSTRUCTION-OPERATIONS DIVISION

1. A Supplement to the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project, Unit No. 103, entitled, "Levees of Georgiana Slough and East Levee of Sacramento River from Walnut Grove to Isleton," dated June 1954, is submitted herewith.

2. Copies of the supplement have also been furnished the Division Engineer, the State Reclamation Board and the State Division of Water Resources.

1 Incl

1. O&M Manual

cc: Levees

F. KOCHIS

*92* Chief, Engineering Division

CORPS OF ENGINEERS  
U. S. ARMY

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UNIT NO. 103  
BOTH LEVEES OF GEORGIANA SLOUGH  
AND  
EAST LEVEE OF SACRAMENTO RIVER  
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Prepared in the Sacramento District  
Corps of Engineers, U. S. Army  
Sacramento, California, dated June 1954

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

UNIT NO. 103

BOTH LEVEES OF GEORGIANA SLOUGH  
AND  
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FROM  
WALNUT GROVE TO ISLETON

LOCATION	ADDITION OR REVISION	DATE
1-04 a. (5)	Add contract no. 64-97	Jun 1965
Exhibit B	Add drawing no. 50-4-3811	Jun 1965
Exhibit F	Add letter of acceptance dated 31 Aug 1964	Jun 1965
1-04 c.	Add contract no. DACW05-69-C-0076	Dec 1970
Exhibit B	Add drawing no. 50-4-4283	Dec 1970
Exhibit F	Add copy of letters of acceptance dated 24 Dec 1969 and 16 Sep 1970	Dec 1970
1-04 d.	Add contract no. DACW05-71-C-0021	Dec 1971
Exhibit B	Add drawing no. 50-4-4378	Dec 1971
Exhibit F	Add copy of letters of acceptance dated 9 Dec 1971	Dec 1971
1-04	Add subparagraph e.	Oct 1975
2-01 c.	Environmental values	Oct 1975
Exhibit B	Add drawing no. 50-4-4687	Oct 1975
Exhibit F	Add copy of letter of acceptance dated 20 Sep 1973	Oct 1975
1-04	Add subparagraph f.	Dec 1975
2-04 a.	Add subparagraph (4).	Dec 1975
Exhibit B	Add drawing no. 50-4-4768	Dec 1975
Exhibit F	Add copy of letters of acceptance dated 1 Oct 1973 and 9 Jul 1974	Dec 1975
1-04	Add subparagraph g.	Mar 1978
2-01	Delete subparagraph c. (Oct 1975)	Mar 1978
2-05	Added on page 23	Mar 1978
Exhibit B	Add drawing no. 50-4-4898	Mar 1978
Exhibit F	Add copy of letter of acceptance dated 14 Dec 1976	Mar 1978
1-04	Add subparagraph h.	Feb 1983
Exhibit B	Add drawing no. 50-4-5255	Feb 1983
Exhibit F	Add copy of letters of transfer dated 18 Jul 1978 and (2 letters) 12 Oct 1978	Feb 1983
1-04	Add subparagraph i	Sep 1983
Exhibit B	Add drawing no. 50-4-5347	Sep 1983
Exhibit F	Add copy of letters of transfer dated 12 Dec 1978 and 7	Sep 1983

LOCATION	ADDITION OR REVISION	DATE
	Apr 1981	
1-04	Revise subparagraph g.	Feb 1984
1-04	Add subparagraph j.	Aug 1990
Exhibit B	Add drawing no. 50-4-5697	Aug 1990
Exhibit F	Add copy of letter of transfer dated 13 Dec 1985	Aug 1990
Section 1-04	Add paragraph j	20 Apr 2010
Exhibit B	Add Drawing No. 50-4-6036	20 Apr 2010
Exhibit F	Add copy of letter of transfer dated 20 Apr 2001	20 Apr 2010
Exhibit F	Add copy of letter of transfer dated 21 Sep 2001	20 Apr 2010
Exhibit F	Add copy of letter of transfer dated 23 Jun 1947	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Jul 1947	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 20 Apr 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 1 May 1951 (Item 297)	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 1 May 1951 (Unit 43-A)	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 3 Aug 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 13 Sep 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 9 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 10 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 13 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 3 Mar 1952	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 28 Jun 1952	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 29 May 1953	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 22 Jan 1954	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 21 Sep 1955	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 15 Jul 1964	16 Dec 2010
1-04	Add subparagraph k	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 8 May 1987	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 9 Dec 1969	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 31 Aug 1970	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 23 Nov 1971	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 10 Sep 1973	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 14 Sep 1973	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 5 Jun 1974	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 9 Jul 1974	3 Mar 2011
Exhibit F	Add copy of letter of transfer dated 2 Dec 1976	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 17 Aug 1978	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 22 Dec 1978 (Unit No. 32, one site, Georgiana Slough)	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 22 Dec 1978 (Unit No. 32, various sites, Georgiana Slough)	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 22 Dec 1978 (Unit No. 33)	3 Mar 2011

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
Exhibit F	Add copy of letter acceptance dated 30 Apr 1981	3 Mar 2011
1-04	Renumber subparagraphs due to additions from previously un-added revisions (second subparagraph j changed to k, subparagraph k changed to l)	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 18 Mar 1986	3 Mar 2011
1-04	Add subparagraph m	3 Mar 2011
Exhibit F	Add copy of letter of transfer dated 29 Sep 1988	3 Mar 2011
1-04	Add subparagraph n	3 Mar 2011
Exhibit F	Add copy of letter of transfer dated 16 Nov 1989	3 Mar 2011

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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 east levee of the Sacramento River from Walnut Grove to Isleton and both levees of Georgiana Slough. Levees of this unit are located in Reclamation Districts No. 364, 136, 807, 563 and 532 on the Tyler Island side of Georgiana Slough and Reclamation Districts No. 556, 317, and 407 on the Andrus Island side of Georgiana Slough and the east levee of the Sacramento River from Walnut Grove to Isleton. All in Sacramento County, California and in the general vicinity of the towns of Walnut Grove and Isleton. The location of the unit covered by this manual is shown on EXHIBIT A-1. In addition to both levees of Georgiana Slough, this manual covers and supersedes the supplemental manual designated as Unit No. 11 of the Sacramento River Flood Control Project, East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, California previously issued by the Sacramento District Engineer.

1-02. Protection Provided. - The levees of this unit provide protection to adjacent agricultural lands and the towns of Isleton and Walnut Grove against flood waters and high tides of the Sacramento River and Georgiana Slough. The grade of the adopted flood profile along the main channel of the Sacramento River within this unit varies from elevation 19.1 at the upper end near Walnut Grove to elevation 16.9 at Isleton. The levee project grade along the Sacramento River within this unit provides a freeboard which equals or exceeds 3 feet and the project design capacity is 35,900 cubic feet per second. For Georgiana Slough, the adopted flood plane varies from elevation 17.5 at the County Highway Bridge near Walnut Grove to elevation 10.5 at its junction with the Mokelumne River. The levee project grade along Georgiana Slough provides a freeboard which equals or exceeds 3 feet and the project design capacity is 20,000 cubic feet per second.

1-03. Project Works. - The project works covered by this manual include the following:

a. The east levee of the Sacramento River from Walnut Grove downstream 7.98 miles to the Isleton Bridge. This levee was set-back and enlarged to adopted grade and section.

b. Levees along both banks of Georgiana Slough from Walnut Grove downstream about 12.5 miles to the Mokelumne River. Both levees were setback and enlarged to adopted grade and section.

c. The east levee of the Sacramento River from Isleton Bridge to the town of Isleton as built by local interests.

1-04. Construction Data. Unit No. 103 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 drawings. (See EXHIBIT B).

a. Construction work along the Sacramento River was accomplished as follows:

(1) During the period from 12 June 1946 to 27 May 1947, H. Earl Parker reconstructed the east levee (left bank) of the Sacramento River from Walnut Grove to Isleton Bridge under Contract No. W-04-167-eng-1162.

(2) During the period from 9 September 1953 to 23 October 1953, the Hutchinson Company constructed bank protection works along the left bank of the Sacramento River between Isleton and Walnut Grove under Contract No. DA-04-167-eng-1090.

(3) That part of the east levee of the Sacramento River from Isleton Bridge to the town of Isleton which was built by local interests equals or exceeds project grade and section.

b. Construction work required to complete both banks of Georgiana Slough was accomplished under the following contracts:

(1) During the period from 11 July 1950 to 15 June 1951, H. Earl Parker constructed the levee along the easterly side (left bank) of Georgiana Slough from its mouth at the Mokelumne River upstream to the S.P.R.R. bridge under Contract No. DA-04-167-eng-303.

(2) During the period from 1 June 1950 to 5 December 1950, H. Earl Parker constructed the levee along the easterly side (left bank) of Georgiana Slough from the S.P.R.R. bridge upstream 4.25 miles under Contract No. DA-04-167-eng-271.

(3) During the period from 12 July 1950 to 18 August 1951, A. Teichert & Son, Inc. constructed the levee along the westerly side (right bank) of Georgiana Slough

from State Highway No. 12 upstream 6-5/8 miles under Contract No. DA-04-167-eng-296.

(4) During the period from 2 April 1951 to 20 June 1952, A. Teichert & Son, Inc. constructed the levee along the easterly side (left bank) of Georgiana Slough from station "L2" 221-00 to station "L2" 105-45; along the westerly side (right bank) from station "R" 601-40 to station "R" 453-00 Upper Andrus Island; and along the westerly side (right bank) of Georgiana Slough from station "R" 105-00 to station "R" 1-20 on Lower Andrus Island; all under Contract No. DA-04-167-eng-486.

(5) Levee reconstruction on Georgiana Slough was accomplished under Contract No. DA-04-167-CIVENG-64-97 by J. W. Richards during the period from 25 May 1965 to 9 July 1965, Specification No. 3043, Drawing No. 50-4-3811.

c. Stone protection at Site Miles 4.0 and 8.4 on the left bank of Georgiana Slough and Site Miles 4.75 and 9.75 on the right bank of Georgiana Slough and Site Miles 22.1 and 22.7 on the left bank of the Sacramento River (a portion of Unit No. 15, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-69-C-0076 action by Eugene Luhr and Company during the period from 14 June 1969 to 25 August 1970. Specification No. 3349, Drawing No. 50-4-4293.

d. Bank Sloping and stone protection at Site Mile 24.7 on the left bank of the Sacramento River (a portion of Unit No. 19, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-71-C-0021 by James L. Ferry and Son during the period from 26 August 1970 to 20 December 1971. Specification No. 3427, Drawing No. 50-4-4378.

e. Bank protection, levee bank sloping and selective clearing on the left bank of the Sacramento River at Site Miles 21.4 and 22.5 (Unit No. 23) was accomplished under Contract No. DACW05-73-C-0012 by James L. Ferry and Son during the period from 1 August 1972 to 10 July 1974. Specification No. 4041, Drawing No. 50-4-4687.

f. Bank protection, levee bank sloping and selective clearing on Georgiana Slough Site Miles 7.9, 9.5 and 10.1 Right Bank and Site Miles 4.2, 4.4, 7.1, 8.4 and 9.5 Left Bank, and a recreational site at Mile 9.5 which included a vehicle access ramp, parking area, and boat launching ramp, Sacramento River Bank Protection Project Unit 25, was accomplished under Contract No. DACW05-73-C-0046 by James L. Ferry and Son during the period from 8 November 1972 to 5 November 1974. Specification No. 4210, Drawing No. 50-4-4768.

g. Bank protection, levee bank sloping and selective clearing on Site Miles 18.6, 23.1, 25.1, and 26.4 left bank, Sacramento River Bank Protection Project Unit 28, was accomplished under Contract No. DACW05-76-C-0015 by James L. Ferry and Son, Inc. during the period from 25 August 1975 to 27 December 1976. Specification No. 4559, Drawing No. 50-4-4898.

h. Bank sloping, stone protection and selective clearing on the right and left bank of Georgiana Slough at Site Miles 7.1, 8.9, 9.9, 11.1, 12.1 and 12.3 Right and 1.3, 5.6, 6.3, 7.7, 9.3 and 11.4 Left (a portion of Unit 32) was accomplished under Contract No. DACW05-78-C-0012 by James L. Ferry and Son, Inc. Construction was completed on 17 October 1978. Specification No. 5183, Drawing No. 50-4-5255.

i. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Miles 18.2, 19.9, 20.4, 21.0, 22.0, 22.2 and 23.6 (a portion of Unit 33) was accomplished under Contract No. DACW05-77-C-0101 by Dutra Construction Company Inc. Construction was completed on 12 October 1980. Specification No. 5269, Drawing No. 50-4-5347.

j. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Miles 17.9, 19.1, 20.5, 21.4, 21.6, 23.4 and 24.1 (a portion of Contract 37) was accomplished under Contract No. DACW05-84-C-0104 by Roy D. Garren Corp. Construction was completed on 6 December 1985. Specification No. 7014, Drawing No. 50-4-5697.

k. Pipelines established on the left bank of the Sacramento River at levee mile 3.96. Stability berms and embankment fill as well as other levee construction at levee miles 3.57 – 3.78 and 3.96 on the left bank Sacramento River. All work was accomplished under Contract No. DACW05-97-C-0148 by contractor M.H.M. Construction was completed 30 November 1997. Specification No. 9926E, Drawing No. 50-4-6036.

l. Emergency repairs to the left bank levee of Georgiana Slough in Reclamation District 563 was completed on 27 March 1987 under Contract No. DACW05-86-C-0124. Drawing No. 50-4-5775.

m. Bank sloping and stone protection on the left bank of the Sacramento River at Site Miles 19.2 and 19.7 was completed 12 August 1988 under Contract No. DACW05-87-C-0079. Specification No. 8054, Drawing No. 50-4-5777.

n. Bank sloping and stone protection along the left bank of the Sacramento River, Site Mile 20.2 and Georgiana Slough, right bank, Site Miles 7.9 and 8.1 and left bank, Site Miles 4.8 and 11.7 was completed on 8 November 1989 under Contract No. DACW05-89-C-0037. Specification No. 8259, Drawing No. 50-4-5784.

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 12.30 on the Division of Water Resources gage located on the east side (left bank) of the Sacramento River at Walnut Grove. Zero of this gage is set at elevation 2.84 U.S.C.E. datum and 0.00 U.S.G.S. datum. For the lower end of Georgiana Slough “high water period” shall refer to flows when the water surface reaches or exceeds a reading of 5.50 on the Division of Water Resources gage located on the West side (right bank) of Georgiana Slough 300 feet upstream from the Mokelumne River. Zero of gage is set at elevation 0.00 U.S.G.S. datum and 3.11 feet U.S.C.E. 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 5 September 1951, 20 November 1951, 2 January 1952 and 4 December 1953, as shown on the attached letters of acceptance, Exhibit F.

1-08. Superintendent. The name and address of the Superintendent and/or Superintendents 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. Channels.

##### a. Description. The principal features consist of:

(1) Channels or Floodways. The channel of the Sacramento River from Walnut Grove to Isleton will carry a flood flow of 35,900 cubic feet per second and is subject to ebb and flow of tides within this reach. The channel of Georgiana Slough will carry a flood flow of 20,000 cubic feet per second and is subject to ebb and flow of tides throughout its entire length. However, on the lower end of Georgiana Slough, greater erosive action within the channel will be caused by fluctuations of tides rather than ordinary flood flows.

Since both channels of this unit are used for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channels shall be limited to flood control and the requirements of paragraphs 2-01b, c, and d, which follow, shall be observed only to that extent.

##### b. Inspection.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, Par. 208.10 (g)(1) are quoted in part as follows:

"(g) Channels and Floodways.....(1) Maintenance. Periodic inspections of improved channels and floodways shall be made by the Superintendent to be certain that:

- (i) The channel or floodway is clear of debris, weeds, and wild growth.
- (ii) The channel or floodway is not being restricted by the depositing of waste materials, building of unauthorized structures or other encroachments.
- (iii) The capacity of the channel or floodway is not being reduced by the formation of shoals.
- (iv) Banks are not being damaged by rain or wave wash, and that no sloughing of banks has occurred.
- (v) Riprap sections and deflection dikes and walls are in good condition.

(vi) Approach and egress channels adjacent to the improved channel or floodway are sufficiently clear of obstructions and debris to permit proper functioning of the project works. Such inspections shall be made prior to the beginning of the flood season and otherwise at intervals not to exceed 90 days. Immediate steps will be taken to remedy any adverse conditions disclosed by such inspection...."

(2) The purpose of the flood-flow channels inspection is to insure that conditions which affect the channel capacity will remain the same, as far as possible, as those considered in the design assumptions and that no new conditions develop that may affect the stability of the project structures. At each inspection required by Par. 208.10(g)(1) of the Flood Control Regulations, particular attention will, therefore, be given the following:

- (a) Location, extent and size of vegetal growth.
- (b) Unauthorized operations within the flood-flow channel right-of-way, such as excavation, buildings, and other structures, levees, bank protection, or training dikes.
- (c) Rubbish and industrial waste disposal.
- (d) Changes in the channel bed such as aggradation or degradation, which would interfere with free-flow from side drainage structures or induce local meanders that would scour the banks.
- (e) Operations of any nature upstream from the project that would affect flow conditions within the limits of the flood control project.
- (f) Condition of project structure.
  - 1. Channel walls:
    - a. Deviation from alignment and grade.
    - b. Development of cracks and spalls.
    - c. Mechanical injuries.
  - 2. Fencing:
    - a. Injuries to posts, fencing or barbed wire.
    - b. Damage to galvanizing.

3. Earth fills:

- a. Settlement.
- b. Erosion of both slopes.
- c. Excessive seepage or saturation area back of fills.
- d. Condition of bank protection - concrete or stone blanket.

4. Right-of-way:

- a. Presence of dumped refuse.
- b. Encroachment or trespass.

(3) No excavation within the limits of Unit No. 103 of the Sacramento River or Georgiana Slough will be permitted unless an excavation permit has been approved by the State Reclamation Board.

(4) If any work is done to improve flow conditions in the Sacramento River or Georgiana Slough, it should be coordinated with the District Engineer to insure that proper provisions are made for channel alignment and capacity to conform to the existing project.

(5) The intent of these inspections is to disclose all conditions which in any way affect the stability of the structures and their functioning for the control of floods. Each inspection report should note and comment on any repair measures that have been taken since the last inspection. In making these inspections, the check sheets included as EXHIBIT E shall be explicitly followed.

c. Maintenance.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, Par. 208.10(g)(1) are quoted in part as follows: ".... Immediate steps will be taken to remedy any adverse conditions disclosed by such inspections..."

(2) Shoaling or aggradation at the inlets or outlets of side drainage structures may render them inoperative. It is, therefore, imperative that all drains be kept open and unobstructed at all times.

(3) Dumped rock or other suitable types of protection should be placed at locations found by experience to be critical trouble points, with a view to stabilizing the channel alignment and preserving the general uniformity of the bank lines.

(4) Sediment and debris plugs or other obstructions should be removed from the channel to prevent any tendency for the flows to be deflected within the channel. The heavy material likely to accumulate in the new channel at the mouths of tributaries should be removed to keep the channel clear.

(5) The channel and right-of-way shall be kept reasonably clear of debris, refuse matter, or industrial wastes.

(6) Weeds and other vegetal growth in the channel shall be cut in advance of the flood season and, together with all debris, removed from the channel.

(7) All eroded concrete shall be repaired as soon as reinforcing steel is exposed or erosion reaches a depth of 4 inches. For this purpose, it is recommended that the repair be made by thoroughly cleaning the surface by sandblasting and building up the section with pneumatically placed Portland cement mortar. All evidence of settlement, uplift, or failure of concrete structures shall be referred to the State Engineer for analysis and remedial measures.

(8) All damage to fencing, whether resulting from accidental or willful injuries or from corrosion, shall be promptly repaired with new material in order to maintain satisfactory protection to the public.

(9) All subdrainage structures which have become cemented due to the evaporation of ground water or other causes, shall be thoroughly cleaned out and repacked with fresh gravel.

d. Operation.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, Par. 208.10(g)(2), are quoted in part as follows:

"(g) Channels and floodways...(2) Operation. Both banks of the channel shall be patrolled during periods of high water.... Appropriate measures shall be taken to prevent the formation of jams.... of debris. Large objects which become lodged against the bank shall be removed. The improved channel or floodway shall be thoroughly inspected immediately following each major high water period. As soon practicable thereafter all snags and other debris shall be removed and all damage to ...walls, drainage outlets or other flood control structures repaired."

(2) It shall be the duty of the Superintendent and/or Superintendents to maintain a patrol of the project works during all periods of floods in excess of a reading of 12.30 on the Division of Water Resources gage at Walnut Grove near the upper end of Georgiana Slough. Also

during periods of floods in excess of a reading of 5.50 on the Division of Water Resources gage on the right bank of Georgiana Slough 300 feet upstream from the Mokelumne River. Gage readings 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 on either or both gages reaches gage readings as referred to 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 the observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-03c of the Standard Manual.

## 2-02. Levees.

a. Description. The levees in this manual are located along the easterly side of the Sacramento River from Walnut Grove to Isleton and along both banks of Georgiana Slough. All levees of this unit have been built to adopted grade and section. For more complete detail of items included in construction of above mentioned levees, refer to the "As Constructed" drawings of EXHIBIT B. Structures affecting levee maintenance are listed under paragraph 2-03 and in Exhibit E of this manual.

### b. Inspection.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, paragraph 208.10 (b) (1), are quoted in part as follows:

"(b) Levees - (1) Maintenance .... Periodic inspection shall be made by the Superintendent to be certain that:

- (i) No unusual settlement, sloughing, or material loss of grade of levee cross section has taken place;
- (ii) No caving has occurred on either the landside or the riverside of the levee which might affect the stability of the levee section;
- (iii) No seepage, saturated areas, or sand boils are occurring;
- (iv) Toe drainage systems and pressure relief wells are in good working condition, and that such facilities are not becoming clogged;
- (v) Drains through the levees and gates on said drains are in good working condition;

- (vi) No revetment work on riprap has been displaced, washed out, or removed;
- (vii) No action is being taken, such as burning grass and weeds, during inappropriate seasons, which will retard or destroy the growth of sod; (see Note (a) at end of subparagraph (1).);
- (viii) Access roads to and on the levee are being properly maintained;
- (ix) Cattle guards and gates are in good condition;
- (x) Crown of levee is shaped so as to drain readily, and roadway thereon, if any, is well shaped and maintained;
- (xi) There is no unauthorized grazing or vehicular traffic on the levees;
- (xii) Encroachments are not being made on the levee right-of-way which might endanger the structure or hinder its proper and efficient functioning during times of emergency.

Such inspections shall be made immediately prior to the beginning of the flood season immediately following each major high water period, and otherwise at intervals not exceeding 90 days; and such intermediate times as may be necessary to insure the best possible care of the levee ..."

Note (a)

Since the growth of sod on the slopes of the levees of this project is not practicable and as the nature of the levee growth warrants burning thereof to facilitate inspection, the provisions of subparagraph b(1) of the regulations inconsistent therewith shall not apply. In place of item (vii), therefore, the following shall be observed:

Weeds, grasses and debris on the levee are burned during appropriate seasons, where not dangerous or impracticable in order to permit the detection of cracks, holes, burrows, slips, and other damage and to permit the detection and extermination of burrowing animals and that grass and weeds on levee slopes be mowed where removal by burning is dangerous or impracticable, such as peat levees or where burning would constitute a hazard.

(2) To insure the taking of such maintenance measures as shall be required for proper functioning of the levee, the following items shall be specifically covered in each inspection:

- along the toe.
- (a) Aggradation or degradation of the stream bed
  - (b) Settlement of levee fill.
  - (c) Erosion of levee slopes; both sides of levees.
  - (d) Presence of seepage; saturated areas, or sand boils back of levee.
  - (e) Condition of access roads and roadway on levee.

c. Maintenance.

(1) Repairs to Levee Embankment. Methods used for repair or reconstruction of the levee fill will depend on the extent of the damaged section. If of small extent, the most suitable method will be to bring the levee back to line and grade by a fill made in 6-inch layers of earth free from brush, roots, sod or other unsuitable matter. If of larger extent, the fill should be made in the same manner as the original construction, of selected material from borrow pits approved for the project, placed in uniform layers of loose material and not more than 6 inches in depth and compacted in accordance with the specifications under which the work was completed or compacted according to approved construction practices.

(2) Depredations of Burrowing Animals. Dens and runways formed within the levee by burrowing animals are frequently the causes of levee failures during flood stages. Burrowing animals such as muskrats, ground hogs, ground squirrels, moles and gophers, found in the levee should be exterminated. The dens and runways should be opened up and thoroughly compacted as they are backfilled. Levees kept properly cleared are not seriously menaced by burrowing animals as they prefer areas where a protective cover, such as high grass, weeds, and brush, is found. Several methods of extermination are found effective, such as trapping, baiting, and poison gases, depending on the type of animal present and the time of year the work is done. Advice concerning the best methods in each locality can be obtained from the County Agricultural Agent.

(3) Access Roads. Access roads to the levees shall be maintained in such condition that they will be accessible at all times to trucks used to transport equipment and supplies for maintenance of flood fighting.

d. Operation.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, Par. 208.10(b)(2) is quoted in part as follows:

"(2) Operation. During flood periods, the levee shall be patrolled continuously to locate possible sand boils or unusual wetness of the landward slope to be certain that:

- (i) There are no indications of slides or sloughs developing.
- (ii) Wave wash or scouring action is not occurring.
- (iii) No low reaches of levee exist which may be overtopped.
- (iv) No other conditions exist which might endanger the structures.

Appropriate advance measures will be taken to insure the availability of adequate labor and materials to meet all contingencies. Immediate steps will be taken to control any condition which endangers the levee and to repair the damaged section."

2-03. Drainage and Irrigation Structures.

a. Description. Irrigation and drainage structures which extend through the levees as shown on drawings inclosed as EXHIBIT B are listed as follows:

STRUCTURES AFFECTING LEVEE MAINTENANCE			
Location Station	Steel Pipe Size	Other Structure Description	Elev. of Invert of Pipe (highest)
<u>Left Bank of Georgiana Slough</u>			
"L" 6/39	1" & 36"	Shut-off valve at pump-elev. 5.8	
"L" 6/48.9	20"		10.5
<u>NOTE: From "L" 6/39 to "L" 297/43.8 See Drwg. No.50-4-2632 of Exhibit B.</u>			
"L" 19/23.5	12"	2" air and primer valve Reinf.Concr.spillbox-landside	10.6
"L" 43/91.9	14"	2" air and primer valve Reinf.concr.spillbox-landside	11.1
"L" 60/34	14"	2" air and primer valve	11.2
"L" 81/71.4	12"	2" air and primer valve	11.5
"L" 119/16	16"	2" air and primer valve	11.8
"L" 136/45.1	10"	2" air and primer valve 4'x9' concr. standpipe	11.9
"L" 148/58.5	12"	2" air and primer valve Reinf. concr. spillbox	12.0

## STRUCTURES AFFECTING LEVEL MAINTENANCE (cont.)

Location Station	Steel Pipe Size	Other Structure Description	Elev. of Invert of Pipe (highest)
"L" 164/10	14"	2" air and primer valve Reinf. concr. spillbox	12.3
"L" 171/57.5	14"	2" air and primer valve Reinf. concr. spillbox	12.1
"L" 173/94.5	16"	Installed salvaged air and primer valve Reinf. concr. distribution box	12.3
"L" 193/23.5	12"	1 1/2" air and primer valve Reinf. concr. spillbox	12.3
"L" 212/44.5	16"	1 1/4" air and primer valve Spillbox & 16" alfalfa valve	12.8
"L" 219/71.2	14"	2" air and primer valve Reinf. concr. spillbox	13.2
"L" 232/09	1 1/2"	Pumphouse on riverside	12.7
"L" 233/50.5	14"		13.0
"L" 252/40.7	24"	2" air and primer valve Reinf. concr. spillbox	12.6
"L" 269/36	8"	1" air and primer valve Reinf. concr. spillbox	13.6
"L" 289/22.9	12"	1" air and primer valve Reinf. concr. spillbox	14.0
"L" 294/25.1	8"	2" air and primer valve & 6" gate valve with pump on riverside 6'x42" conc. standpipe	13.6
"L" 297/43.8	14"	double siphon priming system river- side. 4'x15' concr. standpipe	13.4
"L" 321/03	18"	This pipe was plugged	13.0
"L" 324/07.5	10"	2" air and primer valve Reinf. concr. spillbox	14.2

## STRUCTURES AFFECTING LEVEE MAINTENANCE (Cont.)

Location Station	Steel Pipe Size	Other Structure Description	Elev. of Invert of Pipe (Highest)
"L" 331/00.5	8"	1" air and primer valve Reinf. concrete spillbox	15.1
"L" 368/38	8"	1" air valve, brass cock and cover Reinf. concr. spillbox	15.0
"L" 390/74.5	10"		15.8
"L" 398/41.3	20"	2 1/2" priming pipe assembly 15'x42" Reinf. concr. standpipe	15.5
"L" 414/27.4	10"	1" air valve, brass cock and cover 15'x36" standpipe	15.4
"L2" 27/35	12"		15.0
"L2" 48/81	8"	1" air valve, brass cock and cover Reinf. concr. spillbox, pump on riverside	15.1
"L2" 62/79	6"	1" air valve, brass cock and cover	15.3
"L2" 82/25	12"	1" air valve, brass cock & cover 42" concr. standpipe, pump riverside	14.6
"L2" 104/55	12"	2" air valve, brass cock & cover Surge tank & pump 1062 ft. east of levee	14.8
"L2" 116/73	12"	1" air & vacuum valve 12'x36" concr. standpipe. Pump on riverside.	16.1
"L2" 122/21.7	2"	1/4" vent pipe, pump on riverside	16.2
"L2" 146/62.8	8"	9'x36" concr. standpipe 6'x6'C.M. pumphouse on riverside	16.5

NOTE: From "L" 321/03 to "L2" 104/55. See Drawing No. 50-4-2630 of Exhibit B.

"L2" 170/50	8"		17.8
"L2" 182/21	8"	6" concr. standpipe Pump on riverside	16.8

STRUCTURES AFFECTING LEVEE MAINTENANCE (Cont).

Location Station	Steel Pipe Size	Other Structure	Description	Elev. of Invert of Pipe (highest)
"L2" 196/67.8	12"	1" air and vacuum valve	15'x36" concr. standpipe	17.1

NOTE: Pipes listed above that are 8" or larger are furnished with one corrugated metal cut-off wall and are constructed up and through levee at flood plane.

From "L2" 116/73 to "L2" 196/67.8 see Dwg. No. 50-4-2671 of Exhibit B.

Right Bank of Georgiana Slough

"R" 6/76.9	2"	Pumphouse & wharf	on riverside	10.2
"R" 8/03	3"			10.5
"R" 26/25	10"	24" concr.	standpipe	10.5
"R" 35/76.7	14"	2" primer valve, 12'x42" concr. standpipe	Gate Model No. 20-10-C Frame 10' high	10.8
"R" 54/23	12"	3/4" riser and hose bibb	5'x42" concr. standpipe	11.0
"R" 63/75	12"	2" priming assembly	24" concrete standpipe	11.1
"R" 74/06	6"	3/4" valve and 1 1/2" priming assembly	9'x36" concrete stanpipe	11.2
"R" 82/86	3"			11.3
"R" 83/60	12"	Hand pump and primer	9'x42" concr. standpipe	11.3
"R" 95/61	8"	3/4" priming valve	15'x42" concrete standpipe	11.4
"R" 96/25.3	3"			11.4

NOTE: From "R" 6/76.9 to "R" 101/79.1 see Drwg. No. 50-4-2672 of Exhibit B.

## STRUCTURES AFFECTING LEVEE MAINTENANCE (cont.)

Location Station	Steel Pipe Size	Other Structure Description	Elev. of Invert of Pipe (highest)
"R" 101/79.1	8"	3/4" primer valve 15'x36" concrete standpipe	11.5
"R" 105/02	8"	Hand pump primer concrete spillbox	11.6
"R" 106/79	12"	1 1/2" primer 48" concrete standpipe	11.6
"R" 107/76	26"	1 1/2" pipe also thru levee	11.6
"R" 108/35	3/4"	Water line	11.6
"R" 127/98	8"	12'x36" concrete standpipe	11.9
"R" 144/04	8"	9'x42" concrete spillbox	12.9
"R" 155/97	8"	Reinf. concrete spillbox	12.7
"R" 182/63	12"	Hand pump primer Reinf. concrete spillbox	13.1
"R" 184/80	10"	2-8" high pressure gas lines across channel	
"R" 188/39	8"	6'x36" concrete standpipe 6" pump on riverside	12.9
"R" 196/99	2"	1/2" air and vacuum valve 6'x36" concrete standpipe	13.1
"R" 205/46	12"	1" air and vacuum valve Reinf. concrete spillbox	13.0
"R" 214/10		3" electrical conduit	
"R" 237/13	8"	1" air and vacuum valve Reinf. concrete spillbox	13.4
"R" 238/44	16"	Hand pump primer 15'x42" concrete standpipe	12.9
"R" 247/80	1 1/2"	I. P. Siphon	
"R" 255/00	8"	1" air and vacuum valve, pumphouse riverside, 6'x48" concrete standpipe	13.4

NOTE: From "R" 105/02 to "R" 446/36 see Drwg. No. 50-4-2631 of Exhibit B

## STRUCTURES AFFECTING LEVEE MAINTENANCE (cont.)

Location Station	Steel Pipe Size	Other Structure Description	Elev. of Invert of Pipe (highest)
"R" 279/70	12"	2" primer valve Reinf. concrete spillbox	13.9
"R" 315/56.9	8"	1" air and vacuum valve 6'x36" concrete standpipe	14.3
"R" 316/00	12"	2" primer assembly 42" standpipe	14.3
"R" 327/63.7	8"	2" primer valve 9'x42" concrete standpipe	14.4
"R" 328/28.2	6"	1" air and vacuum valve 6'x42" concrete standpipe	14.4
"R" 340/14.1	12"	9'x42" concrete standpipe	15.0
"R" 362/50	8"	2" priming valve assembly 36" standpipe	15.2
"R" 377/00	12"	3-24" lateral headgates landside and pump on riverside	14.9
"R" 397/20.5	16"	4" air valve	13.9
"R" 397/36.3	20" & 24"	6" air valve concr. saddle & wood beam riverside	13.6
"R" 398/11.4	8"	1" air and vacuum valve Reinf. concrete spillbox	15.4
"R" 421/08.7	12"	2" air and primer valve Reinf. concrete spillbox	15.4
"R" 427/88.4	12"	Reinf. concrete spillbox pump on riverside	14.5
"R" 441/19.6	6"	9'x48" concrete standpipe 3/4" conduit thru levee	16.2
"R" 446/36	12"	12'x42" concrete standpipe	15.7
"R" 454/82.8	10"	Primer & valve assembly on riverside 15'x36" concrete standpipe	15.7

NOTE: From "R" 454/82.8 to "R" 548/59.8 see Drwg. No. 50-4-2671 of Exhibit B.

STRUCTURES AFFECTING LEVEE MAINTENANCE (cont.)

<u>Location Station</u>	<u>Steel Pipe Size</u>	<u>Other Structure Description</u>	<u>Elev. of Invert of Pipe (highest)</u>
"R" 468/52.7	8"	3/4" primer pipe. Pump on river-side 6'x36" concrete standpipe	15.9
"R" 482/49.3	8"	1" air valve. Pump on riverside 9'x36" concrete standpipe	16.0
"R" 511/00	8"	1" air valve. Pump on riverside 12'x36" concrete standpipe	16.4
"R" 528/02.1	10"	1" air valve. Pump on riverside Concrete standpipe	16.6
"R" 540/85	2"		16.3
"R" 548/59.8	10"	1" air valve. Pump on riverside 9'x36" concrete standpipe	16.8

NOTE: Pipes listed above that are 6" or larger are furnished with one corrugated metal cut-off wall and are constructed up and through levee at flood plane.

East Bank of Sacramento River

"H" 2/00	12"	Irrigation structure with pump on riverside of levee and with gate valve in discharge line of pump. Pipe passes through levee at flood plane.	17.2
"H" 8/72	6"	" " " "	17.2
"H" 14/64	12"	Irrigation structure with pump-house on riverside of levee and with gate valve in discharge line of pump. Pipe passes through levee with invert at flood plane.	17.2
"H" 42/33	8"	" " " "	17.4
"H" 52/21	12"	" " " "	17.4
"H" 72/67	12"	" " " "	17.5
"H" 95/27	10"	" " " "	17.6
"H" 114/87	12"	" " " "	17.7
"H" 139/48	8"	" " " "	17.8
"H" 157/48	12" & 8"	" " " "	17.9
"H" 159/97	6"	" " " "	17.9

STRUCTURES AFFECTING LEVEE MAINTENANCE (cont.)

<u>Location Station</u>	<u>Steel Pipe Size</u>	<u>Other Structure Description</u>	<u>Elev. of Invert of Pipe (highest)</u>
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East Bank of Sacramento River (cont.)

"J" 2/73	6"	Irrigation structure with pump-house on riverside of levee and with gate valve in discharge line of pump. Pipe passes through levee with invert at flood plane.	18.0
"J" 18/20	8"	" " "	18.0
"J" 32/40	6"	" " "	18.1
"J" 58/00	10"	" " "	18.2
"J" 80/79	12"	" " "	18.3
"J" 91/27	6"	" " "	18.4
"J" 115/25	10"	" " "	18.5
"J" 125/31	6"	" " "	18.5
"J" 149/10	8"	" " "	18.6
"J" 171/33	8"	" " "	18.7
"J" 192/00	6"	" " "	18.8
"J" 217/52	10"	" " "	19.0

NOTE: For "H" and "J" stations see Drwg. No. 50-4-2277 of Exhibit B.

EAST BANK SACRAMENTO RIVER  
ISLETON BRIDGE TO ISLETON

For location of pipes listed below see Drwg. No. 6-13-1100 of Exhibit B.

<u>Location Riv. Mileage</u>	<u>Pipe Size &amp; Kind</u>	<u>Other Structure Description</u>	<u>Elev. of Invert of Pipe (highest)</u>
18.27	4" iron	Extends into levee-landside end not found	13.0
18.25	8" welded steel	Pump on riverside, 30" concrete standpipe on landside	18.0
18.16		3.5'x3.5' concrete box extends thru levee	17.0
18.13		3.0'x3.0' concrete box extends thru levee	17.6
17.93	4" steel	Steel tank on landside	18.4

EAST BANK SACRAMENTO RIVER  
ISLETON BRIDGE TO ISLETON (cont.)

Location Riv. Mileage	Pipe Size & Kind	Other Structure Description	Elev. of Invert of Pipe (highest)
17.89		48"x52" concrete box extends thru levee	19.0
17.74	6" iron	Pump on riverside	16.7
17.51	6" welded steel	Pump on landside	17.8

b. Inspection.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, paragraph 208.10(d) (1), are quoted in part as follows:

"(d) Drainage Structures (1) Maintenance - Adequate measures shall be taken to insure that inlet and outlet channels are kept open and that trash, drift, or debris is not allowed to accumulate near drainage structures. Flap gates and manually operated gates and valves on drainage structures shall be examined, oiled and trial operated at least once every 90 days ..... Periodic inspections shall be made by the Superintendent to be certain that:

- (i) Pipes, gates, operating mechanism, riprap and headwalls are in good condition;
- (ii) Inlet and outlet channels are open;
- (iii) Care is being exercised to prevent the accumulation of trash and debris near the structures and that no fires are being built near bituminous coated pipes;
- (iv) Erosion is not occurring adjacent to the structures which might endanger their watertightness or stability.

Immediate steps will be taken to repair damage, replace missing or broken parts, or remedy adverse conditions disclosed by such inspections."

(2) At each inspection required by paragraph 4-02 (b)(2) of the Standard Manual, the following items, if applicable, shall be particularly noted:

- (a) Debris or other obstructions to flow.
- (b) Condition of pipes and gates.
- (c) Damage or settlement of pipe.
- (d) Condition of concrete cracks, spalls, erosion.

c. Maintenance.

(1) All eroded concrete shall be repaired as soon as any reinforcing steel is exposed or erosion reaches a depth of 4 inches. For this purpose it is recommended that the repair be made by thoroughly cleaning the surface by sandblasting and building up the concrete to its original section with pneumatically-placed portland cement mortar. All evidences of settlement, uplift, or failure of concrete structures should be referred to the State Engineer for analysis and recommendation of remedial measures.

(2) If the inspection shows that the automatic drainage structures have been jammed in an open position by debris or other obstructions, they shall be thoroughly cleaned so that they swing freely to a true closure. If any parts of the gates have been damaged or broken, they shall be replaced by new parts.

(3) Compliance with the provisions prescribed above pertaining to drainage structures is essential for proper maintenance of the levee system covered by this manual. Levee failures caused by neglected drainage structures are of common occurrence; it is, therefore, of utmost importance that these structures always be kept in perfect working condition in accordance with the regulations.

(4) Care should be taken not to bury any of the side drainage inlets in the event that it becomes necessary to fill any of the low-lying pockets in back of the levee. Plans for the maintenance of drainage facilities at any such points should be submitted to the State Reclamation Board for approval before such work is started.

d. Operation.

(1) Pertinent Regulations of the Code of Federal Regulations: Flood Control Regulations, paragraph 208.10 (d)(2), are quoted in part as follows:

"(2) Operation. Whenever high water conditions impend, all gates will be inspected a short time before water reaches the invert of the pipe and objects which might prevent closure of the gate shall be removed. Automatic gates shall be closely observed until it has been ascertained that they are securely closed..... All drainage structures in the levees shall be inspected frequently during floods to ascertain whether seepage is taking place along the lines of their contact with the embankment. Immediate steps shall be taken to correct any adverse conditions."

(2) The outlets of side drainage structures inundate at relatively low river stages. They should, therefore, be inspected at the first sign of a rise in the river to make certain that the gates are not jammed in an open position and thus allow flood waters to enter behind the levee.

2-04. Miscellaneous Facilities.

a. Description. Miscellaneous structures or facilities which might affect the functioning of the protective works are shown in drawings EXHIBIT B and are listed as follows:

(1) Bridges.

(a) A steel swing span highway bridge across Georgiana Slough, located near Walnut Grove at station 249+00 "J".

(b) A bascule railroad bridge across Georgiana Slough located at station "L" 300+40.

(c) A county road swing bridge across Georgiana Slough located at station "L" 232+66.

(d) Isleton bascule bridge, a State highway bridge across the Sacramento River located at station 0+00 "H".

(2) Utility Crossing.

(a) Two 8" high pressure gas lines crossing Georgiana Slough at stations "L" 221+83.4 and "L" 221+86.2. P.G & E. Co. lengthened pipe crossings and reconstructed portals on both banks of Georgiana Slough.

(3) Wharves and Warehouse.

(a) A grain elevator and warehouse on riverside berm of levee at mile 18.52 with grain conveyor belt and loading dock at mile 18.50.

(b) Wharf and warehouse supported on piling that extends from mile 18.43 to mile 18.39.

(c) Wharf and warehouse supported on piling at mile 17.90.

(4) Recreation area. The recreation site on the waterside of the levee at Mile 9.5 which includes a vehicle access ramp, boat launching ramp and parking area shall be administered and maintained in a manner consistent with good public park practices. Inspection of the premises shall be conducted at least annually by members of the Corps of Engineers and the State Reclamation Board on a mutually agreed schedule, to determine the adequacy of the operation and maintenance program.

b. Inspection and Maintenance.

(1) Pertinent Requirements of the Code of Federal Regulations. Flood Control Regulations, paragraph 208.10(h)(1) are quoted in part as follows:

“(h) Miscellaneous Facilities. (1) Maintenance. Miscellaneous structures and facilities constructed as a part of the protective works and other structures and facilities which function as a part of, or affect the efficient functioning of the protective works, shall be periodically inspected by the Superintendent and appropriate maintenance measures taken. Damaged or unserviceable parts shall be replaced without delay...”

(2) Inspection of the miscellaneous facilities shall be made at the same time that the inspection of the other features of the project are made, and shall be reported on check list No. 3, sheet No. 4, of EXHIBIT E.

(3) The interest of the Corps of Engineers and the responsibility of the local interests in the existing highway and railroad bridges is confined to their effect on the safety and functioning of the flood control channel, but any conditions noted in the inspections that may affect them in any way should, as a matter of courtesy, be brought to the attention of the agencies maintaining and operating them. If the inspection of any miscellaneous structure, any condition that indicates the probability of failure during period of high water, the Superintendent shall address a letter to the owner of the structure, quoting this manual as authority and inviting attention to the conditions observed and representing that immediate steps be taken to correct them. A copy of such letter shall be forwarded to the District Engineer for his information. A report on the action..... (continues on page 23)

taken by the owner shall be submitted to the District Engineer to accompany the next semi-annual report under provisions of paragraph 3-03c of the Standard Manual. A suggested report form is included as EXHIBIT G of this manual.

(4) The purpose of maintenance work is to insure continuous satisfactory operation of equipment. It is, therefore, important in such work that all possible causes of future trouble be found and corrected. Particular attention should be given to minor weaknesses which may be an indication of future trouble.

c. Operation.

(1) Requirements of the Code of Federal Regulations, Flood Control Regulations, paragraph 208.10(h)(2) are quoted as follows:

"(2) Operation. Miscellaneous facilities shall be operated to prevent or reduce flooding during periods of high water. Those facilities constructed as a part of the protective works shall not be used for purposes other than flood protection without approval of the District Engineer unless designed therefor."

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 23.1 and 25.1 left bank, Sacramento River.) \*

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

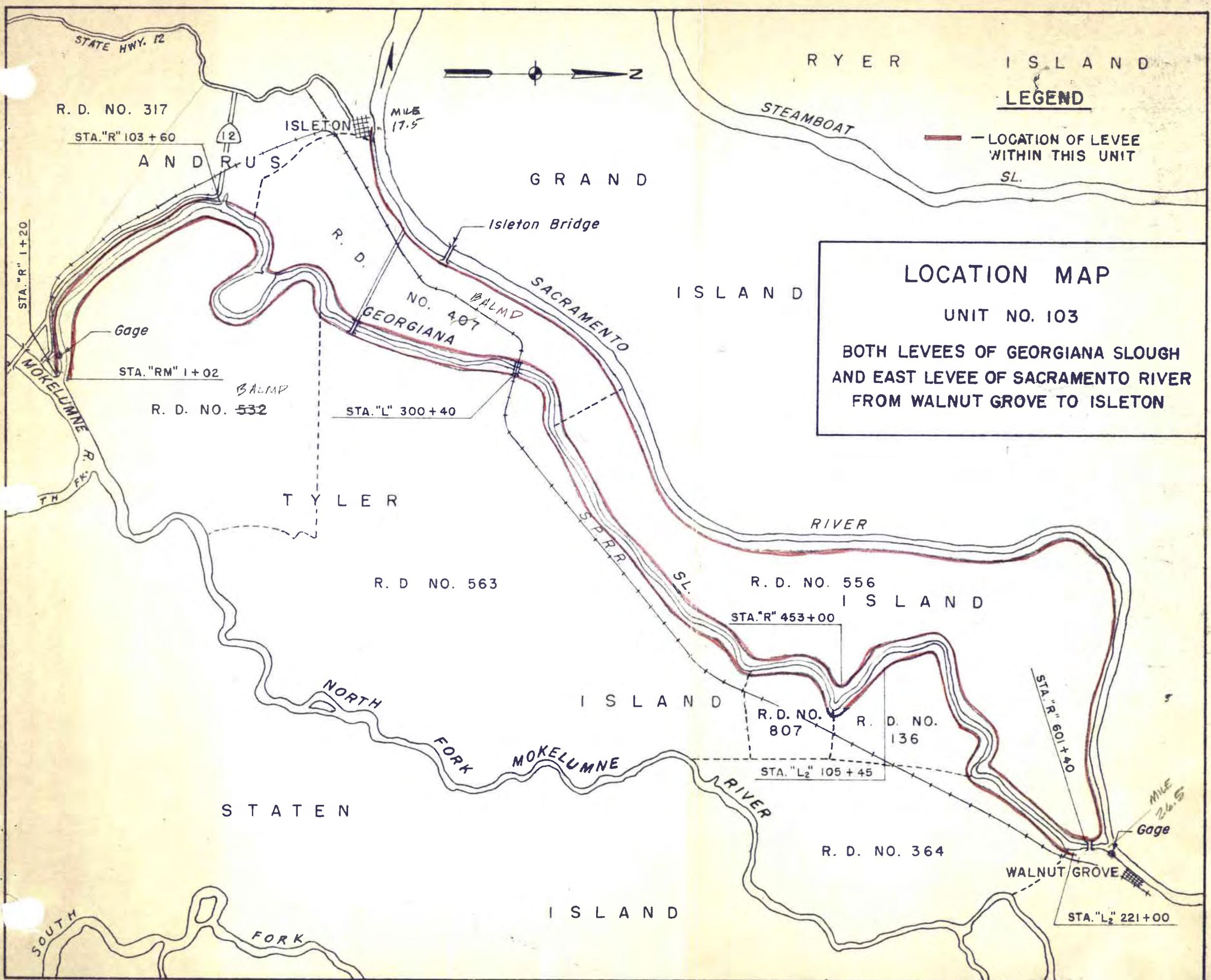
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Division of Water Resources, State of California, 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 V of the Standard Manual, where the subject is fully covered.

EXHIBIT A

FLOOD CONTROL REGULATIONS

(See Standard Manual)



**LEGEND**

— LOCATION OF LEVEE WITHIN THIS UNIT SL.

**LOCATION MAP**  
 UNIT NO. 103  
 BOTH LEVEES OF GEORGIANA SLOUGH  
 AND EAST LEVEE OF SACRAMENTO RIVER  
 FROM WALNUT GROVE TO ISLETON

EXHIBIT B

"AS CONSTRUCTED"  
DRAWINGS

(See Separate Folder for the Following Drawings:)

Drawing No. 50-4-2631, sheets 1 to 4 inclusive. Sheet 5.3 revised 6/3/54 and sheets 6 to 12, inclusive. Levee construction along Georgiana Slough at Andrus Island from State Highway No. 12 upstream 6 5/8 miles.

✓ Drawing No. 50-4-2632, sheets 1 and 2, sheet 3.1 revised 6/3/54 and sheets 4 to 11, inclusive. Levee construction along Georgiana Slough at Tyler Island from mouth upstream to S.P.R.R. Bridge.

✓ Drawing No. 50-4-2630, sheets 1 to 9 inclusive. Levee construction along Georgiana Slough at Tyler Island from S.P.R.R. Bridge upstream 4.25 miles.

Drawing No. 50-4-2671, sheets 1 to 4, inclusive. Sheet 5.3 revised 6/3/54 and sheets 6 to 8, inclusive. Levee construction along right and left banks of Georgiana Slough.

Drawing No. 50-4-2672, sheets 1 to 7 inclusive. Georgiana Slough Levee Construction - Lower Andrus Island from mouth upstream approximately 2 miles.

Drawing No. 50-4-2277, sheets 1 to 5 inclusive. Levee construction on left bank of Sacramento River from Isleton Bridge to Walnut Grove.

Drawing No. 6-13-1100, sheet 18, Sacramento River from Sacramento River to Collinsville.

Drawing No. 50-4-2957, sheets 3 and 4. Bank protection, left bank Sacramento River between miles 16.9 and 26.5. (Added)

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

Drawing No. 50-4-3811, Georgiana Slough and West Yolo Bypass, Levee Reconstruction and Pipe Removal, in 1 sheet.

50-4-4283 Bank Protection, Various Locations, Right and Left Banks, Sacramento River and Georgianna Slough, in 34 sheets

50-4-4378 Bank Protection, Various Locations, Right and Left Banks, Sacramento River between mile 24.7 and 53.7, in 23 sheets

- 50-4-4687 Bank Protection, Various Locations Right and Left Banks, Sacramento River Mile 55.0 to Mile 16.0, in 28 sheets.
- 50-4-4768 Bank Protection, Various Locations on Sutter, Steamboat, Miner and Georgiana Sloughs, in 33 sheets.
- 50-4-4898 Bank Protection, Various Locations on Right and Left Banks, Sacramento River, Between Mile 12.0 and Mile 58.0, in 43 sheets.
- 50-4-5255 Bank Protection, Various Locations, Right and Left Banks, Georgiana Slough, in 17 sheets.
- 50-4-5347 Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 15.0 to Mile 60.0, in 33 sheets.
- 50-4-6036 Bank Restoration, Left bank Sacramento River Levee Miles 3.57-3.78 and 3.96, in 4 sheets.
- 50-4-5697 Bank Protection, Unit 37, Right and Left Banks, Sacramento River and Tributaries, Mile 0.0 to Mile 62.0, in 55 sheets.

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(See Standard Manual)

EXHIBIT D

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

EXHIBIT E

CHECK LISTS OF LEVEES,  
CHANNEL AND STRUCTURES

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

CHECK LIST NO. 2

LEVEES OF UNIT NO. 103

Georgiana Slough and east bank of the Sacramento River from Walnut Grove to Isleton.

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

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

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

Instructions for Completing Sheet 2, Exhibit E  
(To be printed on the 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 gullyng of the section has occurred.
- Item (c) If sufficient erosion or gullyng 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.

Instructions for Completing Sheet 2, Exhibit E  
(To be printed on the 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. 103

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

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

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

Instructions for Completing Sheet 4, Exhibit E  
(To be printed on the back of sheet 4)

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

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

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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 structures	(g) Repair measures taken since last inspection	(h) Comments
<p><u>"L" Stations</u></p> <p>6/39 6/48.9 19/23.5 43/91.9 60/34 81/71.4 119/16 136/45.1 148/58.5 164/10 171/57.5 173/94.5 193/23.5 212/44.5 219/71.2 232/09 233/50.5</p>	<p>Left " " " " " " " " " " " " " " " "</p>						<p><u>Left Bank of Georgiana Slough</u></p>

## CHECK LIST NO. 4

## DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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
<u>"L" Stations</u>							
252/40.7	Left						
269/36	"						
289/22.9	"						
294/25.1	"						
297/43.8	"						
321/03	"						
324/07.5	"						
331/00.5	"						
368/38	"						
398/41.3	"						
414/27.4	"						
390/74.5	"						
<u>"L2" Stations</u>							
27/35	Left						
48/81	"						
62/79	"						

Left Bank of Georgiana Slough (contd)

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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
<u>"L" Stations</u>							
82/25 104/55 116/73 122/21.7 146/62.8 170/50 182/21 196/67.8	Left " " " " " "						
<u>Right Bank of Georgiana Slough</u>							
<u>"R" Stations</u>							
6/76.9 8/03	Right "						



CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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
<u>"R" Stations</u>							
155/97	Right						
182/63	"						
184/80	"						
188/39	"						
196/99	"						
205/46	"						
214/10	"						
237/13	"						
238/44	"						
247/80	"						
255/00	"						
279/70	"						
315/56.9	"						
316/00	"						
327/63.7	"						
328/28.2	"						
340/14.1	"						
362/50	"						
377/00	"						
397/20.5	"						
397/36.3	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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 invert paving	(f) Condition of right- of-way adjacent to structure	(g) Repair measures taken since last inspection	(h) Comments
<u>Right Bank of Georgiana Slough (contd)</u>							
"R" Stations	Right						
398/11.4	"						
421/08.7	"						
427/88.4	"						
441/19.6	"						
446/36	"						
454/82.8	"						
468/52.7	"						
482/49.3	"						
511/00	"						
528/02.1	"						
540/85	"						
548/59.8	"						
<u>East Bank of Sacramento River</u>							
"H" Stations	Left						
2/00	"						
8/72	"						
14/64	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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
<u>East Bank of Sacramento River (contd)</u>							
<u>"H" Stations</u>							
42/33	Left						
52/21	"						
72/67	"						
95/27	"						
114/87	"						
139/48	"						
157/48	"						
159/97	"						
<u>"J" Stations</u>							
2/73	Left						
18/20	"						
32/40	"						
53/00	"						
80/79	"						
91/27	"						
115/25	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

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

UNIT NO. 103

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(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
<u>East Bank of Sacramento River (contd)</u>							
<u>"J" Stations</u>							
125/31	Left						
149/10	"						
171/33	"						
192/00	"						
217/52	"						
<u>Riv. Mileage</u>							
18.27	Left						
18.25	"						
18.16	"						
18.13	"						
17.93	"						
17.89	"						
17.74	"						
17.51	"						

Instructions for completing sheet 6 to 13 incl., Exhibit E  
(To be printed on the back of sheet 6 to 13, incl.)

- (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

C  
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P  
Y

STATE RECLAMATION BOARD LETTERHEAD  
September 13, 1951

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

Dear Sir:

Reference is made to yours of August 3d, SPKKO-P 824.3 (Sac. R.F.C.P.), in which you transfer to the State of California for maintenance and operation the levee and slough bank contiguous and opposite thereto along the left bank of Georgiana Slough, at Tyler Island, from its mouth upstream to the Southern Pacific Railroad bridge near Isleton, California.

The Reclamation Board at its meeting September 5, 1951, accepted said levee on behalf of the State of California.

Yours very truly,

THE RECLAMATION BOARD

A.M. BARTON  
Chief Engineer and General Manager

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

COPY

STATE RECLAMATION BOARD LETTERHEAD  
November 28, 1951

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

Dear Sir:

Reference your letter 10 November 1951, file SPKKO-P 824.3 (Sacramento River Flood-control Project), transferring to the State of California for maintenance and operation the levee along the right bank of Georgiana Slough at Andrus Island, from State Highway 12 upstream 6-5/8 miles.

The Reclamation Board at its meeting November 20, accepted, on behalf of the State, the subject levee for maintenance and operation.

The Board at the same time directed that your attention be called to the existence of snags in certain portions of Georgiana Slough adjacent to the newly constructed levees which you refer to in subject letter and to similar letter at other locations under date of November 9, 1951. These snags are probably navigational subject instead of levee maintenance, but our information points to the fact that the snags should be removed in order to make efficient maintenance operations that will be required.

Yours very truly,

THE RECLAMATION BOARD

A. M. BARTON  
Chief Engineer and General Manager

By \_\_\_\_\_  
S. A. Honaker  
Assistant Secretary

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12

STATE RECLAMATION BOARD LETTERHEAD

November 28, 1951

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

Dear Sir:

Reference your letter 9 November 1951, file SPKKO-P 824.3 (Sacramento R.F.C.P.), transferring to the State of California for maintenance and operation the following two units of the Sacramento River Flood Control Project:

- a. Right bank of Georgiana Slough, Station 453/00 to 601/40, on Andrus Island, from a point approximately 3.3 miles southwest of Walnut Grove northeasterly approximately 2.8 miles.
- b. Left bank of Georgiana Slough, Station 105/45 to 221/00, on Tyler Island, from a point 2.7 miles southwest of Walnut Grove northeasterly approximately 2.2 miles.

The Reclamation Board at its meeting November 20, accepted, on behalf of the State, the subject levee for maintenance and operation.

The Board at the same time directed that your attention be called to the existence of snags in certain portions of Georgiana Slough adjacent to the newly constructed levees. These snags are probably navigational subject instead of levee maintenance, but our information points to the fact that the snags should be removed in order to make efficient those maintenance operations that will be required.

Yours very truly,

THE RECLAMATION BOARD

A. M. BARTON

Chief Engineer and General Manager

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

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Y

STATE RECLAMATION BOARD LETTERHEAD

May 22, 1952

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

Dear Sir:

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

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

Yours very truly,

THE RECLAMATION BOARD

By /s/ A. M. Barton  
A. M. BARTON

Chief Engineer and General Manager

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January 2, 1952

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

<u>No.</u>	<u>Date of Letter</u>	<u>Levee Location</u>	<u>Remarks</u>
1.	13 Dec 1951	- - - - -	- - - - -
3.	13 Dec 1951	d(14) East Levee Sacramento River Mile 18.5 to 21.5	Completed contract. Maintained by R.D. No. 407.
		d(15) East Levee Sacramento River Mile 21.6 to 26.3	Completed contract. Maintained by R.D. No. 556.
		d(16) East Levee Sacramento River Mile 26.4 to Georgiana Slough	Completed contract. Maintained by R.D. No. 556.
		i. East Levee Georgiana Slough from SPRR upstream 22,500 ft.	Completed contract. Maintained by Tyler Island District.

Note: Only items pertaining to Operation and Maintenance Manual No. 103 are included in the above copy.

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Registered Mail  
Return Receipt Requested

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

13 December 1951

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

Gentlemen:

Reference is made to your letter of 2 July 1951 acknowledging 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 Flood Control Act of 1944.

The levee reaches in question are located as follows:

- a. -----
- d. Easterly levee of the Sacramento River
  - (12) Mile 17.6 to Mile 18.0.
  - (13) Mile 18.15 to Mile 18.5

The levee covered by items a to c., inclusive, d (1) to d (13), inclusive, -----, 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 provision 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

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Board upon completion.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

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

Note: Only items pertaining to Operation and Maintenance Manual No. 103 are included in the above copy.

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(The Reclamation Board Letterhead)

December 4, 1953

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

Dear Sir:

Reference your letter, File No. SPKKO-P 824.3 (Sac. Riv. FCP) dated 24 Nov 1953, wherein certain levee sections pertaining to the Sacramento River Flood Control Project located along the left bank of the Sacramento River were transferred to the State of California as follows:

a. Levee section at Location No. 1, between River Mile 16.90 and 16.95.

b. Levee section at Location No. 2, between River Mile 17.5 and 17.6.

c. Levee section at Location No. 3, between River Mile 18.0 and 18.15.

d. Levee Section at Location No. 4, between River Mile 26.3 and 26.4.

e. Levee section at Location No. 5, between River Mile 26.45 and 26.5.

The Reclamation Board, on behalf of the State of California, in meeting held December 3, 1953 accepted subject 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/ Donald D. Lemmon  
DONALD D. LEMMON  
Assistant Secretary

DDL: emw  
cc: State Engineer

EXHIBIT F  
Sheet 7 of 7

824.3(Sacramento River)PGKKB

23 June 1947

SUBJECT: Maintenance of the East Levee, Sacramento River, from Isleton Bridge to Walnut Grove

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

Gentlemen:

Construction has been completed of the East Levee of the Sacramento River from Isleton Bridge to Walnut Grove. 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. 50-4-2277, in five sheets, entitled "Proposed Levee Construction, Left Bank, Sacramento River from Isleton Br. to Walnut Grove."

There is also inclosed a copy of Flood Control Regulations prescribed by the Secretary of War pursuant to 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 above 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 obligations established by these regulations.

For the records of this office, acknowledgment of receipt of this letter is requested on or before 25 July 1947.

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

2 Incls.  
Drawing No. 50-4-2277,  
(in 5 sheets)  
Flood Control Regulations

*Manual No. 11*

Copy furnished: State Engineer  
(with inclosures)

cc: CdeA(w/d.)

103

## R E S O L U T I O N

PASSED AND ADOPTED BY THE RECLAMATION BOARD

JULY 2, 1947

- - -

WHEREAS The Reclamation Board has heretofore approved certain items of "new construction"; consisting of (1) the enlargement, set back and construction of the East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, in Reclamation Districts Nos. 407 and 556; (2) enlargement, set back and construction of the East Levee of the Sacramento River from Meridian Bridge to Fisdale Weir, in Reclamation Districts Nos. 70 and 1660; and (3) the enlargement, set back and construction of the East Levee of the Sacramento River between River Miles 92.6 to 94.5, 99.3 to 101.2, and 110.8 to 111.5, in Reclamation District No. 1500; and

WHEREAS the War Department, Corps of Engineers, District Engineer, Sacramento District, under date of June 23, 1947, has notified The Reclamation Board of the completion of the three items of levee enlargement, set back and construction, and has transferred said portions of levee to the State of California for maintenance and operation between 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 date 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 East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 407, be, and the same is hereby turned over to Reclamation District No. 407 for maintenance and operation, as the legally authorized function of said district; and so much thereof as lies within Reclamation District No. 556 be, and the same is hereby turned over to Reclamation District No. 556 for maintenance and operation, as the legally authorized function of said district; and be it further

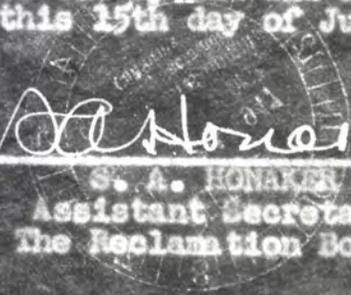
RESOLVED AND ORDERED that the East Levee of the Sacramento River, Meridian Bridge to Tisdale Weir, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 70 be, and the same is hereby turned over to Reclamation District No. 70 for maintenance and operation, as the legally authorized function of said district; and that so much thereof as lies within Reclamation District No. 1660 be, and the same is hereby turned over to Reclamation District No. 1660 for maintenance and operation, as the legally authorized function of said district; and be it further

RESOLVED AND ORDERED that the East Levee of the Sacramento River between Miles 92.6 to 94.5, 99.3 to 101.2, and 110.8 to 111.5, together with the berms and appurtenant structures thereof, be and the same is hereby turned over to Reclamation District No. 1500 for maintenance and operation, as the legally authorized function of said district.

STATE OF CALIFORNIA  
COUNTY OF SACRAMENTO }  
Office of The Reclamation Board } SS

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 adopted by said Board at its meeting held July 2, 1947.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board this 15th day of July, 1947.

  
*S. A. Honaker*  
S. A. HONAKER  
Assistant Secretary  
The Reclamation Board

*Manuals 10, 11 and 12*

EARL WARREN  
GOVERNOR

A. R. GALLAWAY, JR., SACRAMENTO  
PRESIDENT

GROVER SHANNON, YUBA CITY  
VICE PRESIDENT

GEO. H. HOLMES, CLARKSBURG  
SECRETARY

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

A. M. BARTON  
CHIEF ENGINEER AND GENERAL MANAGER

FRED N. HOWSER, ATTORNEY GENERAL  
LEGAL ADVISER

G. F. MELLIN  
ASSISTANT ENGINEER AND APPRAISER

S. A. HONAKER  
ASSISTANT SECRETARY

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA

1100 O STREET  
SACRAMENTO 14, CALIFORNIA

TELEPHONE: GILBERT 3-4671

April 20, 1951

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

Dear Sir:

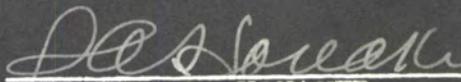
Reference your file PSKKO-P 8 January 1951,  
reference to the completion of the levee along the left  
bank of Georgiana Slough at Tyler Island from the S.P.  
Railroad Bridge upstream 4.25 miles.

The Reclamation Board at its meeting April 18,  
1951, accepted said levee on behalf of the State of  
California, for maintenance and operation.

Yours very truly

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

By

  
S. A. HONAKER  
Assistant Secretary

SAH:emw

Unit No. 43-A

PSERO-P 824.3 (Gen. H.)

1 MAY 1951

*For letter of Acceptance  
dated 20 April 1951  
See file under Unit No. 8.*

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

Gentlemen:

Reference is made to letter from this office dated 1 December 1950, wherein it was proposed to transfer to the jurisdiction of the State of California the clearing of the Futch Creek Channel from approximately one mile above U. S. 40 Highway Bridge upstream to Winters, California. Reference is also made to your letter of 20 April 1951, informing this office that the maintenance work for clearing Futch Creek Channel was accepted by the Board on 18 April 1951.

In accordance with the above the clearing of the Futch Creek Channel is hereby transferred to the State of California for maintenance and operation as of 18 April 1951.

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 this unit 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.

Sincerely yours,

cc: Eng. Div. (2)  
C. de Arrieta  
Sacto. Field Office  
O. C. B.  
Div. Eng.  
State Eng.

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

*Unit No. 8-A - = 297*

103



15

15

PWRKO-P 624.3 (Sec. 8.)

*MS*  
 Accepted by the Board  
 18 April 1951.

1 MAY 1951

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

Gentlemen:

Reference is made to letter from this office dated 8 January 1951, wherein it was proposed to transfer to the jurisdiction of the State of California the levee along the left bank of Georgiana Slough at Tyler Island, near Ialaton, California. Reference is also made to your letter of 20 April 1951, informing this office that the maintenance of said levee was accepted by the Board on 18 April 1951.

In accordance with the above, the levee constructed by the Corps of Engineers along the left bank of Georgiana Slough, at Tyler Island, from the S. P. S. R. Bridge upstream 4.25 miles, near Ialaton, California is hereby transferred to the State of California for maintenance and operation as of 18 April 1951.

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 this levee unit 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,

cc: Eng. Div. (2)  
 Sacto. Field Off.  
 C. de Arrieta  
 O. C. E.  
 Div. Eng.  
 State Eng.

W. HAUG  
 Colonel, Corps of Engineers  
 District Engineer

Unit No. 43-A

103

*Ret. to Amick*

REGISTERED MAIL  
Return Receipt  
Requested

*Accepted 5 sept. 1951*  
3 AUG 1951

SPKCO-P 824.3 (Sec. R. F.C.P.)

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

SERVICE SECTION

Gentlemen:

Reference is made to letter from this office dated 18 April 1951, wherein it was proposed to transfer to the jurisdiction of the State of California the levee along the left bank of Georgiana Slough, at Tyler Island, from its mouth upstream to the Southern Pacific railroad bridge, near Isleton, California. Reference is also made to your letter of 7 May 1951, informing this office that the work under construction on this levee had been inspected by representatives of your office and found to be satisfactory and in conformance with the established standards for levee construction under the Sacramento River Flood Control Project.

The construction of the levee referred to above was completed on 16 June 1951; therefore, in accordance with the understanding referred to above, said levee together with the slough bank contiguous and opposite 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

103

Unit No. 47-A (Contract 303)  
= 300

17

18

regulations, a maintenance manual covering this levee unit 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.

Copy furnished:  
Office, Chief of Engineers  
So. Pac. Division Engineer  
State Engineer  
cc: Engineering Div (2)  
Sacto Field Off.  
C. de Arrieta

REGISTERED MAIL  
Return Receipt  
Requested

SPKHO-P 524.3 (Sacramento R. F.C.P.)

9 NOV 1951

Service Sect.

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

Gentlemen:

Reference is made to letter from this office dated 8 August 1951, wherein it was proposed to transfer to the jurisdiction of the State of California two units of the Sacramento River Flood Control Project in accordance with the procedure set forth in the 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 17 August 1951. The location of these two units is described as follows:

- 73-A a. Right bank of Georgiana Slough, Station 483+00 to 601+00, on Andrus Island, from a point approximately 3.3 miles southwest of Walnut Grove northeasterly approximately 2.8 miles. 103
- 74-A b. Left bank of Georgiana Slough, Station 105+45 to 221+00, on Tyler Island, from a point 2.7 miles southwest of Walnut Grove northeasterly approximately 2.8 miles. 103

The work referred to above, covered by Specification No. 1482, Part "A" of Contract HA-04-167-eng-486, was completed on 3 November 1951 and now meets the requirements of the Sacramento River Flood Control Project. Therefore, said levee units referred to above, together with the slough bank contiguous thereto, are 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

Units  $\textcircled{316} - \textcircled{317} =$   
73-A and 74-A

103

27

SPKKG-P 884.3 (Sacramento R. F.C.P.)  
The Reclamation Board

accordance with existing Flood Control Regulations which have been proscribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under paragraph 208.10 (10) of these regulations, a maintenance manual covering these levee units is in process of preparation and will be furnished 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 Engr.

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

cc: Engineering Div. (2)  
Sec. Fld Off  
Service Sect.  
C. de Arrieta



2

316 - 317

Units 73-A and 74-A

21

REGISTERED MAIL  
Return Receipt  
Requested.

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

10 NOV 1951

11/10/51

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

Gentlemen:

Reference is made to letter from this office dated 18 April 1951, wherein it was proposed to transfer to the jurisdiction of the State of California the levee along the right bank of Georgiana Slough, at Andrus Island, from State Highway 12 upstream 6-5/8 miles, near Isleton, California, in accordance with the procedure set forth in the letter from this office dated 12 February 1951. Reference is also made to the joint inspection of this reach of levee which was made on 23 April 1951.

The levee referred to above, covered by Specification No. 1450, Contract DA-04-167-eng-296, was completed on 4 September 1951, and now meets the requirements of the Sacramento River Flood Control Project. Therefore, said levee unit referred to above together with the slough 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 this levee unit 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,

*Levee Section 299*

*Letter No. 22*

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

Copy furnished:  
Office, Chief of Engrs.  
Co. Pac. Div. Engr.  
State Engr.

cc: Engr Div (2)  
Sag. Fld Off  
Service Sect.  
C. de Arrieta

Concurrences	
Originator:	
Date: 11-7-51	
Exec. O	5 R
Chief Asst.	B
Chf. Tech Asst.	
Engr'g	
Office Svce.	
Legal	
Supply	
Design	3
Records	2

824.3 (SAC. RIVER FCP) SPK

103

49

C. de ARRIETA

REGISTERED MAIL  
Return Receipt  
Requested

Letter No. 13

①

⑬

13 DEC 1951

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

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

Accepted by the Recl. Board:

- Completed by Contract by C. of E.
- ⊖ Const. by Local Interests 203-248-250-285
- ⊕ No maint. is required. 204

Not Accepted

⊖ No capable of separate maint.

Gentlemen:

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

The levee reaches in question are located as follows:

a. Sherman Island levee of Three Mile Slough.

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

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

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

Items 199 to 295

⑬

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

d. Easterly levee of the Sacramento River.

Reach  
19

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

2 X

Reach  
19

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

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

- ✓ 223 (19) Mile 28.6 to Mile 28.9.
- ✓ 224 (20) Mile 29.1 to Mile 29.9.
- ✓ 225 (21) Mile 30.25 to Mile 30.55.
- ✓ 226 (22) Mile 30.75 to Mile 31.5.
- ✓ 227 (23) Mile 31.8 to Mile 32.2.
- ✓ 228 (24) Mile 32.4 to Mile 33.0.
- ✓ 229 (25) Mile 33.1 to Mile 34.45.
- ✓ 230 (26) Mile 34.65 to Mile 34.95.
- ✓ 231 (27) Mile 35.1 to Mile 36.38.
- ✓ 232 (28) Mile 35.38 to Mile 35.74. ✓ 0
- ✓ 233 (29) Mile 35.85 to Mile 36.55.
- ✓ 234 (30) Mile 36.5 to Mile 36.75.
- ✓ 235 (31) Mile 36.85 to Mile 37.15.
- ✓ 236 (32) Mile 37.3 to Mile 37.85.
- ✓ 237 (33) Mile 38.0 to Mile 38.3.
- ✓ 238 (34) Mile 38.5 to Mile 39.15.
- ✓ 239 (35) Mile 39.75 to Mile 39.9.
- ✓ 240 (36) Mile 40.0 to Mile 40.15.
- ✓ 241 (37) Mile 40.25 to Mile 40.35.
- ✓ 242 (38) Mile 40.5 to Mile 40.8.
- ✓ 243 (39) Mile 41.2 to Mile 41.6.
- ✓ 244 (40) Mile 41.75 to Mile 42.35.
- ✓ 245 (41) Mile 42.5 to Mile 43.05.

Head 17



SPKRA 324.3 (Sac. Riv. F. C. P.)  
The Reclamation Board

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

Reach 17

- ✓ (246) (42) Mile 43.3 to Mile 45.55. } III
- ✓ (247) (43) Mile 45.55 to Mile 44.2. }
- ✓ (248) (44) Mile 44.5 to Mile 45.3. x D 115
- ✓ (249) (45) Mile 55.4 to Mile 55.5. 115
- ✓ (250) (46) Mile 55.1 to American River. x D 118.1
- (251) (47) West levee of Sutter Bypass to Mile 87.5. 84.5
- (252) (48) Mile 91.4 to Mile 92.1.
- (253) (49) Mile 92.6 to Mile 92.7.
- (254) (50) Mile 92.9 to Mile 94.0. ✓ 0
- (255) (51) Mile 96.6 to Mile 97.4.
- (256) (52) Mile 97.5 to Mile 97.7. ✓ 0
- (257) (53) Mile 97.7 to Mile 97.8.
- (258) (54) Mile 99.9 to Mile 102.5. ✓ 0
- (259) (55) Mile 103.45 to Mile 103.7.
- (260) (56) Mile 103.8 to Mile 104.2.
- (261) (57) Mile 104.2 to Mile 104.7. ✓ 0
- (262) (58) Mile 104.7 to Mile 105.55.
- (263) (59) Mile 110.9 to Mile 111.5. ✓ 0
- (264) (60) Mile 118.4 to Mile 118.6 (South End Tisdale Weir).
- (265) (61) At Tisdale Weir. ✓ 0 150

Reach 1A



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

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

Letter No. 13

13

f. Westerly levee of Sutter Slough. 113

- Ranch 36
- ✓ (267) (1) Mile 26.5 to Mile 26.7.
  - ✓ (268) (2) Mile 27.05 to Mile 27.2.
  - ✓ (269) (3) Mile 27.3 to Elkhorn Slough.

g. Westerly levee of Elkhorn Slough.

- ✓ (270) (1) Sutter Slough to Station "A" 431+00.
- ✓ (271) (2) Station "A" 429+50 to Station "A" 405+00.
- ✓ (272) (3) Station "A" 403+50 to Station "A" 344+75.
- ✓ (273) (4) Station "A" 340+75 to Station "A" 326+00.
- ✓ (274) (5) Station "A" 70+50 to Station "A" 60+50.

h. Westerly levee of the Sacramento River.

- Ranch 3
- ✓ (275) (1) Mile 119.2 to Mile 119.7.
  - ✓ (276) (2) Mile 131.4 to Mile 131.8.
  - ✓ (277) (3) Mile 133.1 to Mile 133.3. ✓ 0
  - ✓ (278) (4) Mile 134.0 (Meridian Bridge) to Mile 134.3.
  - ✓ (279) (5) Mile 134.3 to Mile 140.6. ✓ 0
  - ✓ (280) (6) Mile 140.6 to Mile 141.3.
  - ✓ (281) (7) Mile 141.3 to Mile 142.0. ✓ 0
  - ✓ (282) (8) Mile 142.0 to Mile 142.3.
  - ✓ (283) (9) Mile 142.3 to Mile 142.7 (Union Oil Co. Wharf). ✓ 0

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

28 (285) j. Northerly levee of the American River and the back levee of Reclamation District No. 1000 from Jibboom Street Bridge to El Camino Avenue. 125 x D

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

k. Northerly levee of Natamas Cut.

- 48 ✓ (286) (1) From Sacramento River easterly to a point 1,550 feet easterly from the Garden Highway Bridge. 142
- ✓ (287) (2) From a point 2,550 feet easterly from the Garden Highway Bridge to a point 3,250 feet easterly from the Garden Highway Bridge. 142
- ✓ (288) l. Back levee of Reclamation District No. 2068 along the S.N.R.R. from the County Road northeasterly 7,200 feet to high ground. 109
- ✓ (289) m. Southerly levee of North Dry Creek near Wheatland from high ground to the W.P.R.R. Interceptor. 145
- ✓ (290) n. Easterly levee of the W. P. R. R. Interceptor from North Dry Creek southerly to Bear River. 145
- ✓ (291) o. Northerly levee of Bear River from the W. P. R. R. Interceptor easterly to South Dry Creek. 145
- ✓ (292) p. Northerly levee of South Dry Creek near Wheatland from Bear River easterly to high ground, including the Singh saddle closure levee. 145
- ✓ (293) q. Southerly levee of Bear River from the W.P.R.R. easterly to a point 5,400 feet easterly from Carlin Bridge. 141.1
- ✓ (294) r. Southerly levee of South Dry Creek near Wheatland from Bear River easterly 1.86 miles. 144
- ✓ (295) s. Northerly levee of Bear River from South Dry Creek easterly to a point 4,000 feet easterly from Carlin Bridge. 144

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

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

Letter No. 13 (13)

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

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

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

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

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

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

REGISTERED MAIL  
Return Receipt  
Requested

3 MAR 1952

SRKAC-P 824.3 (Sacto. A. F. O. P.)

SERVICE SECTION

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

Gentlemen:

Reference is made to joint inspection made on 30 November 1951 covering the construction of the levees along the right bank of Georgiana Slough and the relocation of a section of State Highway No. 12 on the northerly side of Andrus Island.

This is to advise you that the relocation of the highway referred to above has been completed recently in accordance with Specification No. 1492 and Drawing No. 50-A-2672. This work was performed with funds contributed 100% by the State of California and deposited in this office for that purpose. Therefore, said section of highway, together with the structures pertaining thereto, is hereby turned over to the State of California for operation and maintenance.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

cc: Eng. Div.  
Sacto. Field Office  
C. de Arrieta

E. R. Reifsnyder  
Lt. Colonel, Corps of Engineers  
Executive Officer

Copy furnished  
State Engr.

With funds contributed 100% by the State

Unit No. 93-A

103  
335

SPKED-P 824.3 (Sec R. FCP)

28 JUN 1952

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

Gentlemen:

Reference is made to letter from this office dated 16 November 1951, 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, a unit 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 this unit of work which was made on 30 November 1951. This unit of work is described as follows:

Levee construction, Part "B" of Specification No. 1492, along the right bank of Georgiana Slough, on Andrus Island, commencing at the junction of Georgiana Slough with the North Fork of the Mokelumne River and extending northwesterly for approximately 2 miles in the vicinity of Isleton, California.

The work referred to above has been performed in accordance with Specification No. 1492 and Drawing No. 50-4-2672, and meets with the requirements of the Sacramento River Flood Control Project. Therefore, said work, 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

Service Section

Unit 103  
Unit 93-A  
335  
33

SPKCO-P 621.3 (see H. RFP)  
The Declaration Board, State of Calif.

This unit 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.

Sincerely yours,

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

Copy Furnished:  
State Engineer

cc: CCE  
So. Pac. Divn. Engr.  
Engr. Divn  
Sacto F.O.  
C de Arrieta

335  
33

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  
TELEPHONE: GI 3-4671

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

May 29, 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. Riv. F.C.P.) dated 28 April 1953 and 29 April 1953. Subject letters requested information relative to action taken by The Reclamation Board in regard to units of work transferred by your letters File No. SPKKO-P 824.3 (Sac. Riv. F.C.P.) dated 28 June 1952 and 3 July 1952.

The Reclamation Board in meeting held 6 May 1953, accepted on behalf of the State of California, for operation and maintenance, subject levee units together with their contiguous waterway banks. A description of the units so accepted follows:

1. Transfer letter dated 28 June 1952.  
Levee construction, Part "B" of Specification No. 1492, along the right bank of Georgiana Slough, on Andrus Island, commencing at the junction of Georgiana Slough with the North Fork of the Mokelumne River and extending northwesterly for approximately 2 miles in the vicinity of Isleton, California.
2. Transfer letter dated 3 July 1952.
  - a. Levee Construction, Part "A" of Specification No. 1489, located along the east bank of the Feather River and the south bank of Honcut Creek, commencing at a point 4.8 miles above Simmerly Slough and extending northerly therefrom approximately 13 miles near Marysville, California.

Section 335 ✓

Section 326

Unit 103  
151

335

6464

-2-

District Engineer  
May 29, 1953

b. Levee construction, Part "B" of Specification No. 1489, located along the east side of Reclamation District No. 10, commencing at a point 2.5 miles above Simmerly Slough and extending northerly therefrom a distance of 3.5 miles, near Marysville, California.

Section  
327

Yours very truly

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

By

  
D. M. CARR

DMC:emw  
cc: State Engineer

335

EARL WARREN  
GOVERNOR

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

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  
TELEPHONE: GI 3-4671

January 22, 1954

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

Mile	16.9 to 16.95	=	369
	17.5 to 17.6	=	370
	18.0 to 18.15	=	371
	26.3 to 26.4	=	372
	26.45 to 26.5	=	373
	21.5 to 21.6	=	374 ✓

Dear Sir:

Reference your SPKKO-P 824.3 (Sacramento River Flood Control Project) dated December 11, 1953 relating to units of levee between Mile 16.9 and 26.5 on the left bank of the Sacramento River.

The Reclamation Board at its meeting on January 20, 1954 accepted for operation and maintenance the levee on the left bank of the Sacramento River between Mile 16.9 and 26.5, reaffirming their action of July 2, 1947 and December 3, 1953 in acceptance of completed contracts. Contiguous banks were accepted December 3, 1953 on contract work under Specification No. 1784. This contract included work on the contiguous banks at the following locations: Left Bank of Sacramento River, between River Mile Numbers 16.9 to 16.95, 17.5 to 17.6, 18.0 to 18.15, 26.3 to 26.4, and 26.45 to 26.5.

The remaining 9.15 miles of contiguous waterway banks were not accepted at this time. Contiguous waterway banks for considerable distances in this reach are not in a stable condition capable of economic maintenance. Under work accepted on July 2, 1947, an average berm width of 40 feet was provided by levee set back between River Mile 18.6 and 26.4. Right of way for this set back was very expensive. No bank protection was provided in the setting back of the levee. Present observation has indicated that bank recession in this 7.8 miles has averaged about two feet per year, with a maximum of about 6 feet per year. Under present bank deterioration additional set back of this levee will be required in the near future.

The Board at its meeting on January 20, 1954, also adopted a policy not to accept the contiguous banks where unstable conditions exist and the banks are not the proper height.

Unit No 374  
Att. to Div Engr Letters No. 35  
Unit 2102 + 103

-2-

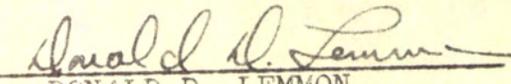
District Engineer  
January 22, 1954

Attached, for your information, are a set of cross sections taken from your final sections on the work completed in 1947 upon which indicated in red, are present locations of river bank.

Yours very truly

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

BY



DONALD D. LEMMON  
Assistant Secretary

GFM:cmh  
Encls. (4)

CC: State Engineer

RECEIVED

JAN 28 8 02 AM '54

RECEIVED

Units 102+103

*Prepared  
21 Sept. 1955*

*Second Copy*

**SPEKID-P 824.3 (Sacramento Riv. F.C.P.)**

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

Gentlemen:

Reference is made to District Engineer's letters dated 14 July and 8 August 1955, whereby thirteen levee sections, designated as sites Nos. 1 to 13 of Contract No. DA-04-167-eng-1166, pertaining to the Sacramento River Flood Control Project, were transferred to the jurisdiction of the State of California for operation and maintenance.

The remaining fourteen sites, Nos. 14 to 27 inclusive, located on the left bank of the Sacramento River, covered by said Contract DA-04-167-eng-1166, Specification No. 1844, and Drawing No. 50-4-2983, were completed on 19 September 1955. A joint inspection of these sites was made on 24 August 1955. Said sites, Nos. 14 to 27 inclusive, are listed as follows:

<u>LEVEE SECTION NO.</u>	<u>SITE NO.</u>	<u>LOCATION</u> <u>RIVER MILES</u>	
		<u>FROM</u>	<u>TO</u>
462	14	36.75	38.65
463	15	37.15	37.3
464	16	37.35	38.0
465	17	39.15	39.75
466	18	39.9	40.0
467	19	40.15	40.25
468	20	40.35	40.50
469	21	41.0	41.2
470	22	41.5	41.75
471	23	42.35	42.5

*Contract 1166  
462-475*

C. de ARRIETA

SPEKO-P 324.3 (Sacto Riv. F.C.P.)  
The Reclamation Board

*Extra*

<u>LEVEE SECTION NO.</u>	<u>SITE NO.</u>	<u>LOCATION</u> <u>RIVER MILES</u>	
		<u>FROM</u>	<u>TO</u>
472	24	43.05	43.25
473	25	(43.55	43.75
		(43.77	43.85
474	26)	44.2	44.5
	and)		
	27)		

*462-474 =  
unit III*

The levee sections, Nos. 462 to 474 inclusive, described above, now meet the requirements of the Sacramento River Flood Control Project, therefore, said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

In addition to the above, recent surveys indicate that the levee section described below also meets the requirements of the Sacramento River Flood Control Projects

<u>LEVEE SECTION NO.</u>	<u>DESCRIPTION</u>
475	Easterly Levee, along Georgiana Slough from Mile 12.20 to its junction with the Sacramento River, Mile 12.50.

*unit 103*

Therefore, said levee section No. 475, together with the waterway bank contiguous thereto, is also hereby transferred to the State of California for operation and maintenance.

It is to be noted that the levee sections described above, combined with others previously transferred to your jurisdiction, now form a continuous levee reach extending from the mouth of Georgiana Slough, at the Mokelumne River, to the mouth of the American River. A section of this levee, 12.50 miles in length, is located on the easterly bank of Georgiana Slough and the remainder, a section 33.58 miles in length, is located along the easterly bank of the Sacramento River.

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

*462-475*

Extra

SPEND-P 624.3 (Sacto Riv. F.C.P.)  
The Reclamation Board

current issue of the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project. As provided under Paragraph 208.10 (10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work is in process of preparation and will be furnished to you upon completion.

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

1 Incl  
1. F.C.Regs

Copy furnished:  
State Engineer  
Dept. of Public Works  
Sacramento, Calif. w/o incl  
OCS w/o incl  
So.Pac.Divn.Engr. w/o incl

cc: Engr. Divn. w/o incl  
Sacto Projs. Off. w/o incl  
C. de Arrieta

462-475

SHKRO-F

15 JUL 1964

The Reclamation Board  
State of California  
1215 "O" Street  
Sacramento, California 95814

Gentlemen:

15 July '64

Reference is made to the joint inspection made on 13 July 1964, of flood control work on two units of the Sacramento River Flood Control Project for the purpose of transferring them to the State of California for operation and maintenance. Reference is also made to Supplement dated 29 November 1957 to the Memorandum of Understanding entered into with the State of California under date of 30 November 1953, covering added items of work required to complete the Sacramento River Flood Control Project.

The flood control work, consisting of levee reconstruction on Georgiana Slough, right bank, Station 26+50 to Station 31+50, and pipe removal on the right levee of Yolo Bypass approximately 0.7 mile south of Lindsay Slough, referred to in the above supplement as Item 13a and 23e respectively, was completed on 10 July 1964, in accordance with Specification No. 3043, Contract DA-04-167-CIVENG-04-97, and Drawing No. 50-4-3811.

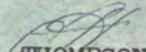
The foregoing supplemental work having been completed to current standards for the Sacramento River Flood Control Projects, is hereby transferred to the State of California for operation and maintenance.

An operation and maintenance manual for each of the above projects has been furnished, which adequately covers operation and maintenance requirements for the above items.

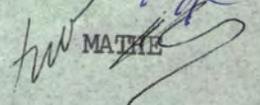
Sincerely yours,

ROBERT E. MATHE  
Colonel, CE  
District Engineer

  
COLEMAN/dbh

  
THOMPSON

  
HART

  
MATHE

673

Copy furnished:  
Dept Water Resources

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

cc Lev & Chan; Prog Dev; F&A; Valley

dist 103, 106

673 ?

REGISTERED  
RETURN RECEIPT REQUESTED

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

31 August 1964

Refer to: 7001.70.104  
4130.70.104

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

Dear Sir:

Reference is made to your letter of July 15, 1964, concerning transfer to the State of California of levee construction on Georgiana Slough, right bank, Station 26+50 to Station 31+50, and pipe removal on right levee of Yolo Bypass approximately 0.7 mile south of Lindsay Slough, in accordance with Specification No. 3043.

The Reclamation Board, at its meeting of August 6, 1964, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

SPKCO-0

9 December 1969

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

Gentlemen:

Reference is made to the joint inspection of 5 December 1969, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #15), to the State of California for operation and maintenance.

The flood control work consists of bank sloping and placement of stone bank protection on Georgiana Slough right bank, at Site Miles 4.75 and 9.75 and left bank at Site Miles 4.0 and 8.4, as listed on the inclosure.

The work was completed on 5 December 1969, in accordance with Specification #3349, Contract No. DACW05-69-C-0076, Drawing No. 50-4-4283. 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 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. 103, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

GEORGE B. FINK  
Colonel, CE  
District Engineer

~~1 Incl~~  
as stated

~~Copy furnished:~~  
DWR, ATTN: John Wright

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

cc: ~~Engr Div-Lev & Chan~~  
~~Engr Div-Prog Dev~~

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

~~Valley~~  
~~F&A Cordano~~

*Unit 103*  
*Copy to Osborne & Huber 11 Dec 69*

*JRC*  
ROMPALA/p

*M. J. C.*  
COLEMAN

~~HENSON~~

~~HART~~

~~FINK~~

*♀*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
STONE PROTECTION, GEORGIANA SLOUGH - PORTION OF UNIT 15

RIGHT BANK

<u>SITE MILE</u>	<u>STATION</u>	<u>LINEAL FEET</u>
4.75	-0+75 to 5+00	575
9.75	30+50 to 36+00	550

LEFT BANK

4.0	22+00 to 29+00	700
8.4	1+00 to 8+00	700

Unit 103

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

C  
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Y

December 24, 1969

4130.60.107

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

Dear Sir:

Reference is made to your letter of December 9, 1969, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project, Unit 15, consisting of Sites Mile 4.0 and 8.4, left bank, and Sites Mile 4.75 and 9.75, right bank, Georgianna Slough for maintenance and operation.

This work was constructed in accordance with Specification No. 3349, Contract No. DACW05-69-C-0076, Drawing No. 50-4-4283.

The Reclamation Board, at its meeting of December 19, 1969, formally accepted the above-referred to work for operation and maintenance.

Sincerely yours,

/s/ P. C. Walters  
for A. E. McCOLLAM  
Chief Engineer and  
General Manager

EXHIBIT F

31 August 1970

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

Gentlemen:

Reference is made to the joint inspection of 25 August 1970 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #15), to the State of California for operation and maintenance.

The Flood control work consisting of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles 15.4, 16.7, 22.1, 22.7, 28.4, 32.3, 33.0, 37.6, 37.75 & 39.2 and on the right bank at Site Mile 19.4, 20.4, 28.8, & 30.6 as listed on the inclosure. The work was completed on 25 August 1970, in accordance with Specification #3349, Contract DACW05-68-C-0076, Drawing No. 50-4-4283.

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 31 August 1970 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements No. 103, 104 & 111, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES R. HIGHMAN  
Lieutenant Colonel, CE  
Acting District Engineer

1 Incl  
AS

Copy furnished:  
O.C.E.  
S.P.D.  
D.W.R.

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

*[Signature]*  
ROMPALA/

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON

*[Signature]*  
HART

*[Signature]*  
HIGHMAN

*[Signature]*

*Wm + S 1031  
10-1-111*

*to Osborn & Thibert 2 Sep 70*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
PORTION OF UNIT 15 SACRAMENTO RIVER

M11-101  
1501 51101

LEFT BANK:

<u>SITE MILE</u>	<u>LEVEE ENGARGEMENT STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>	<u>STONE TOE WALL STATION</u>	<u>L.F.</u>
15.4			61+23 to 66+00	477		
16.7	0+00 to 11+25	1125	0+00 to 12+00 0+00 to 2+14Ah	1415	0+00 to 1+75	175
22.1			60+58 to 68+00	742		
22.7			30+22 to 37+45	723		
28.4			34+62 to 42+55	793		
32.2	54+70 to 62+00	730	56+20 to 62+00	580	56+60 to 58+80	220
33.0			12+70 to 32+35	1965		
37.6	18+00 to 26+66	866	19+60 to 26+66	706	24+39 to 25+82	143
37.75			7+10 to 8+72	162		
39.2			134+150+00	1600	145+85 to 148+20	235

RIGHT BANK:

19.4	0+00 to 9+00	900	0+00 to 9+00	900	0+75 to 1+25	50
20.4			26+00 to 33+50	750		
28.8	153+00 to 171+65	1865	153+00 to 177+55	2455	161+50 to 165+60 169+60 to 170+50	410 90
30.6	56+00 to 78+40	2240	56+35 to 78+40	2205	58+50 to 58+90	40

9163.

6310

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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Y

Sep 16, 1970  
File No: 4130.60.107  
Your Contract 69-C-0076

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

Dear Sir:

Reverence is made to your letter of August 31, 1970, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project for maintenance and operation. The transferred sites were as follows:

Sacramento River	
<u>Left Bank</u>	<u>Right Bank</u>
Mile 39.2	Mile 30.6
Mile 37.75	Mile 28.8
Mile 37.6	Mile 20.4
Mile 33.0	Mile 19.4
Mile 32.2	
Mile 28.4	
Mile 22.7	
Mile 22.2	
Mile 16.7	
Mile 15.4	

This work was constructed in conformance with specification No. 3349, Contract No. DACW05-69-C-0076, drawing No. 50-4-4283 and completes the work to be done on Unit No. 15.

The Reclamation Board at its meeting of September 14, 1970, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

SPKCO-0

23 November 1971

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

Gentlemen:

Reference is made to the joint inspection of 9 November 1971, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #19), to the State of California for operation and maintenance.

The flood control work consists of bank sloping, and placement of stone bank protection on the Sacramento River left bank at Site Miles 24.7, 30.4, 35.2, 42.0, and 42.9 as listed on inclosure. The work was completed on 9 November 1971 in accordance with Specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4373.

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 9 November 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 Nos. 103 and 111, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES C. DONOVAN  
Colonel, CE  
District Engineer

1 Incl (dupe)  
As stated

Copy furnished:  
DWR, ATTN: John Wright  
HQDA (DAEN-ZA)  
SPD

*Copies to Colburn & Huber*

*24 NOV 71*

ROMPALA/jmc

COLEMAN  
HENSON

HART  
DONOVAN

*Units 103, 111*

*Handwritten signature*

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

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION

UNIT 19, SACRAMENTO RIVER

LEFT BANK

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>	<u>Stone Toe Wall</u>	<u>L.F.</u>
24.7	36+00 to 49+00	1300		
30.4	150+00 to 158+00	800		
35.2	8+03 to 19+59	1156	17+50 to 18+25	75
42.0	55+74 to 77+00	2126		
42.9	12+28 to 24+15	1187	21+50 to 23+00	150
		<u>6569</u>		

units 103, 111

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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P  
Y

December 9, 1971

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

Refer to: 4130.60.108

Dear Sir:

Reference is made to your letters of November 18 and 23, 1971, concerning the transfer to the State of California for maintenance and operation a portion of the Sacramento River Bank Protection Project, Unit No. 19, consisting of Sites Mile 24.7, 30.4, 35.2, 42.0, 42.9 Left Bank and 28.3, 29.3, 42.5, 51.3 Right Bank of the Sacramento River.

This work was constructed in accordance with Specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4378.

The Reclamation Board, at its regular meeting of December 3, 1971, formally accepted this portion of Unit 19 for maintenance and operation.

Sincerely yours,

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

EXHIBIT F

10 September 1973

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

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 23), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of stone bank protection on the Sacramento River left bank at Site Miles 29.7, 27.5, 22.5 and 21.4. The sites, as listed on the inclosure, were completed on 5 September 1973 in accordance with Specification No. 4041, Contract No. DACW05-73-C-0012, Drawing No. 50-4-4687.

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 10 September 1973, to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

*Should be 103 of 111*  
Sincerely,

CHRIST F. POTAMOS  
Lieutenant Colonel, CE  
Acting District Engineer

- 2 Incis
- 1. As stated
- 2. General Orders No. 4

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

OCE  
SPD

*Dfw*  
WAIT/dc  
itel

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON

*[Signature]*  
MORINSEY  
*[Signature]*  
POTAMOS

*Units 103, 111*

*corrected copy  
to L of C. 2 pages  
9/11*

*Copy to L of C  
by Long Bar  
12 Sept 73  
9/11*

Valley Res Ofc  
F&A (Jones)

cc: Engr (Lev & Chan)  
Engr (Prog & Dev)

14 September 1973

F & A (Jones)

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

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 25), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of stone bank protection on the Georgiana Slough left bank at Site Miles 4.2, 4.4, 7.1, 8.4 and 9.5, and right bank at Site Mile 7.9. The sites, as listed on the inclosure, were completed on 11 September 1973, in accordance with Specification No. 4210, Contract No. DACW05-73-C-0046, Drawing No. 50-4-4768

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 September 1973 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 103, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

CHRIST F. POTAMOS  
Lieutenant Colonel, CE  
Acting District Engineer

1 Incl  
As stated

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

OCE  
SPD

WAIT/kg

Redac

COLEMAN

HENSON

McKINSEY

LORD

POTAMOS

Unit 103

Copies to Karinga & OSBOURNE  
12-9-73  
M

Valley Res Ofc (2)

cc: Engr (Prog Dev)  
Engr (Levees & Channels)

SUMMARY OF PORTION OF SACRAMENTO RIVER  
BANK PROTECTION UNIT 25, GEORGIANA SLOUGH

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
4.2 left	9+80 to 21+00	1120
4.4 left	2+00 to 4+50	250
7.1 left	34+00 to 58+45	445
8.4 left	1+00 to 5+00	400
9.3 left	1+00 to 7+00	600
7.9 right	1+00 to 3+77	<u>277</u>

3092

28 SEP 73

Unit 103

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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September 20, 1973

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

Refer to: 4130.60.110

Dear Sir:

Reference is made to your letter of September 10, 1973, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 23, to the State of California, for operation and maintenance.

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 21.4, 22.5, 27.5, and 29.7 all Left Bank, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4687, Specification No. 4041, and Contract No. DACW05-73-C-0012, insofar as could be determined visually.

The Reclamation Board at its regular meeting of September 14, 1973, formally accepted for operation and maintenance, the completed flood control work on the above referenced sites.

Sincerely yours,

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

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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October 1, 1973

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

Refer to: 4130.60.111

Dear Sir:

Reference is made to your letter of September 14, 1973, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 25, to the State of California, for operation and maintenance.

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 4.2, 4.4, 7.1, 8.4, and 9.5 on left bank and 7.9 on right bank of Georgiana Slough.

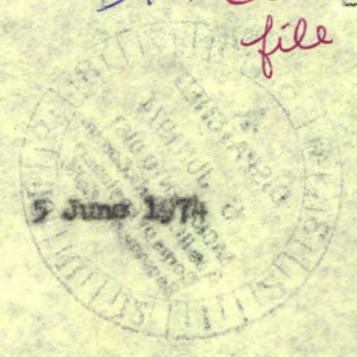
The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4768, Specification No. 4210, and Contract No. DACW05-73-C-0046, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of September 28, 1973, formally accepted for operation and maintenance the completed flood control work on the above referenced sites.

Sincerely yours,

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

*Rmt Clark file*



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 23 May 1974, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 25), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of stone protection on the Georgiana Slough right bank at Site Miles 9.5, and 10.1. Site Mile 9.5 includes a recreation facility which consists of boat ramp, vehicle parking and some selective tree clearing. The sites, as listed on the inclosure, were completed on 23 May 1974, in accordance with Specification No. 4210, Contract No. DACW05-73-C-0046, Drawing No. 50-4-4766.

*Rompala*  
ROMPALA/ph  
*Coleman*  
COLEMAN

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 ~~7 May~~ 74 to the State of California for operation and maintenance.

*50 JUNE 74*

*W.B.*  
*Henson*  
HENSON

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 103, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

*Rockwell*  
ROCKWELL

Sincerely yours,

*4.*

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

*Unit 103*

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

~~OCE~~  
~~SPD~~

cc: ~~Engr~~ (Lev & Chan)      ~~Valley Res Ofc~~ (2)  
     ~~Engr~~ (Prog Dev)        ~~F & A~~ (Jones)

SUMMARY OF PORTION OF  
SACRAMENTO RIVER BANK PROTECTION  
UNIT NO. 25 GEORGIANA SLOUGH

Site Mile	Right Bank Stone Protection	L.F.
9.5	46 + 50 to 52 + 20	570
10.1	3 + 00 to 7 + 20	420
		<hr/> 990

Unit 103

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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July 9, 1974

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

Refer to: 4130.20.111

Dear Sir:

The Reclamation Board at its regular meeting of June 28, 1974, formally accepted the completed flood control work and recreation facilities from the District Engineer for operation and maintenance. The completed work is a portion of the Sacramento River Bank Protection Project, Unit No. 25, and was transferred as of June 5, 1974, to the State of California.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 9.5 and 10.1 Right Bank, Georgiana Slough. Recreation facilities were constructed at Site Mile 9.5 and included a vehicle access ramp, parking area, and boat launching ramp.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4768, Specification No. 4210, and Contract No. DACW05-73-C-0046, insofar as could be determined visually.

Sincerely yours,

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

SPKCC-0



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

*Handwritten initials*

Gentlemen:

Reference is made to the joint inspections of 30 November and 1 December 1976, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 28) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles: 12.9, 13.1, 14.9, 15.3, 18.6, 23.1, 25.1, 26.4, 26.7, 27.2, 32.1, and 34.1, and right bank at Site Miles 17.3, 17.7, 18.1, 19.1, 26.4, 27.0, 27.7, 32.3, 33.1, and 40.4; the irrigation facilities at Site Miles 40.3 left and 50.4 right and the Steamboat Slough left bank at Site Mile 24.8. The sites, as listed on the inclosure, were completed on 21 November 1976 in accordance with specification No. 4559, Contract No. DACN05-76-C-0015; Drawing No. 50-4-4598.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL. 86-545, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 2 December 1976 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 102, 103, 104, 110, 111 and 112 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

DONALD H. O'SHEI  
Colonel, CE  
District Engineer

*M* ROMPALA/pl  
*M* McBRIDE  
A. SMITH  
HENSON  
PROFASCO  
CREMER  
8 O'SHEI

*Copy to Kawaya  
25-1-77*

*Units 102,  
103, 104,  
110, 111, 112*

1 Incl  
As stated

Copy furnished:  
DWR, ATTN: R. Franson & Robert Petter

OCE  
SPD

F&A (Kalal)

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

SUMMARY OF PORTION OF SACRAMENTO  
RIVER BANK PROTECTION PROJECT UNIT # 28  
SACRAMENTO RIVER RIGHT BANK

SITE MILE	STONE PROTECTION	L.F.
17.3	80+00 to 92+50	1250
17.7	51+50 to <del>57+00</del>	550
18.1	28+00 to 37+00	900
19.1	19+70 to 31+00	1130
26.4	285+50 to 292+50	700
	295+50 to 299+50	400
27.0	257+00 to 260+70	370
	262+00 to 269+50	750
27.7	222+80 to 229+50	670
32.3	0+00 to 3+63	363
33.1	8+00 to 16+00	800
40.4	39+00 to 45+00	600

SACRAMENTO RIVER LEFT BANK

*12.9	116+50 to 129+80	1330
13.1	96+50 to 103+50	700
14.9	32+00 to 36+00	400
15.3	8+50 to 15+50	700
18.6	1+00 to 5+30	430
23.1	0+00 to 5+00 AH	500
	111+07 to 112+07 BK	100
25.1	11+00 to 24+00	1300
26.4	5+00 to 7+70	270
26.7	126+50 to 134+00	750
27.2	102+50 to 107+00	450
32.1	11+53 to 19+61	808
	69+78 to 70+00	22
34.1	73+50 to 85+00	1150

STEAMBOAT SLOUGH LEFT BANK

*24.8 *Extended	0+00 to 5+80	580
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*Units 102, 103, 104,  
110, 111, 112*

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STATE OF CALIFORNIA  
THE RECLAMATION BOARD

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December 14, 1976

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

Dear Colonel O'Shei:

The Reclamation Board at its regular meeting of December 10, 1976, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 28 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of December 2, 1976.

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

Sites Miles 12.9, 13.1, 14.9, 15.3 and 18.6 Left Bank, Sacramento River, in the Brannan Andrus Levee Maintenance District.

Sites Miles 17.3, 17.7, 18.1, 19.1 26.4, 27.0, 27.7 and 32.3 Right Bank, Sacramento River and Site Mile 24.8 Left Bank, Steamboat Slough, in Reclamation District No. 3.

Site Mile 40.4 Right Bank, Sacramento River, in Reclamation District No. 150.

Site Mile 33.1 Right Bank, Sacramento River, in Reclamation District No. 349.

Sites Miles 32.1 and 34.1 Left Bank, Sacramento River, in Reclamation District No. 551.

Sites Miles 26.7 and 27.2 Left Bank, Sacramento River, in Reclamation District No. 554.

Sites Miles 23.1, 25.1 and 26.4 Left Bank, Sacramento River, in Reclamation District No. 556.

Sites Miles 40.3 Left Bank and 50.4 Right Bank, Sacramento River, modified irrigation facilities only.

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Colonel Donald M. O'Shei  
Page 2

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4898, Specification No. 4539, and Contract No. DACW 05-76-C-0015, insofar as could be determined visually.

Sincerely,

/s/ Paul L. Clifton  
PAUL L. CLIFTON



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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

18 July 1978

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

Gentlemen:

This is in regard to the joint inspection of 18 July 1978, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 32), to the State of California for operation and maintenance. The flood control work consists of levee and bank sloping and placement of stone protection on Georgiana Slough right bank at Site Miles 7.1, 8.9, 9.9, 11.1, 12.1 and 12.3. The sites described on the inclosure, were completed on 18 July 1978 in accordance with Contract No. DACW05-78-C-0012, Specification No. 5183, and Drawing No. 50-4-5255.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL86-645, 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 19 July 1978 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. 103, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

DONALD M. O'SHEI  
Colonel, CE  
District Engineer

Copy furnished:  
DWR, ATTN: R. Franson  
Robert Potter

DEPARTMENT OF WATER RESOURCES

P. O. BOX 388  
SACRAMENTO  
95802

(916) 445-9454



AUG 17 1978

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

Dear Colonel O'Shei:

At its regular meeting of August 15, 1978, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 32 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter dated July 18, 1978.

The flood control work was done at Sites Miles 7.1, 8.9, 9.9, 11.1, 12.1 and 12.3 Right Bank on Georgiana Slough.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5255, Specification No. 5183, and Contract No. DACW05-78-C-0012, insofar as could be determined visually.

Sincerely,

JOHN F. WRIGHT  
Chief Engineer and  
Acting General Manager

CERTIFIED MAIL 308241  
RETURN RECEIPT REQUESTED



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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

12 October 1978

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

—  
Gentlemen:

This is in regard to the joint inspections of 14 August and 10 October 1978, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 32), to the State of California for operation and maintenance. The flood control (Station 1+90 to 79+20) work consists of levee and bank sloping and placement of approximately 7,730 feet of stone protection on Georgiana Slough left bank at Site Mile 1.3. The site was completed on 10 October 1978 in accordance with Contract No. DACW05-78-C-0012, Specification No. 5183, and Drawing No. 50-4-5255.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL86-645, 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 11 October 1978 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operations and Maintenance Manual, Supplement No. 103, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

DONALD M. O'SHEI  
Colonel, CE  
District Engineer

Copy furnished:  
DWR, ATTN: R. Franson  
Robert Potter



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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 (0767A)

12 October 1978

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

Gentlemen:

This is in regard to the joint inspection of 10 October 1978 made for the purpose of transferring a portion of the Sacramento River Bank Protection (Unit No. 32), to the State of California for operation and maintenance. The flood control works consist of levee and bank sloping and placement of stone protection on Georgiana Slough in the left bank at site miles 11.4, 9.3, 7.7, 6.3 and 5.6. The sites described on the inclosure were completed on 10 October 1978 in accordance with Contract No. DACW05-78-C-0012, Specification No. 5183 and Drawing No. 50-4-5255.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL86-645, 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 11 October 1978 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operations and Maintenance Manual, Supplement No. 103, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

DONALD M. O'SHEI  
Colonel, CE  
District Engineer

Copy furnished:  
R. Franson  
DWR, ATTN: Robert Potter

SUMMARY OF SACRAMENTO RIVER  
BANK PROTECTION PROJECT  
Portion of Unit 32  
Georgiana Slough Left Bank

<u>Site</u>	<u>Stone Protection</u>	<u>L.F.</u>
11.4 Lt	Sta 0+70 to Sta 6+07	537
9.3 Lt	Sta 3+57 to Sta 15+95	1238
7.7 Lt	(Sta 1+65 to Sta 4+20) (Sta 4+80 to Sta 31+20)	2895
6.3 Lt	Sta 1+70 to Sta 5+00	330
5.6 Lt	Sta 0+10 to Sta 8+50	840

SUMMARY OF SACRAMENTO RIVER  
BANK PROTECTION PROJECT  
PORTION OF UNIT 32  
GEORGIANA SLOUGH RIGHT BANK

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
7.1	0+80 to 6+20	540
8.9	6+80 to 15+80	900
9.9	1+00 to 5+75	475
11.1	0+00 to 6+00	600
12.1	3+75 to 7+25	350
12.3	0+08 to 3+50	342

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

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



DEC 22 1978

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

Dear Colonel O'Shei:

At its regular meeting of November 17, 1978, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of Unit 32 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter dated October 12, 1978.

The flood control work has been completed at Site Mile 1.3 Left Bank of Georgiana Slough.

On August 14, 1978, representatives of Reclamation District No. 563, the Corps of Engineers and the Department, inspected the site. At that time the District complained that the stone protection had been placed to berm elevation and should have been placed to the higher flood plain elevation. It was the Reclamation District's opinion that the combination of high tide, boat wake and wind had caused, and would in the future, cause the water to top the stone in low areas. In two areas water had overtopped the rock resulting in some erosion and causing the rock to settle. Reclamation District No. 563 representatives felt that the "low" areas, if left "as is", would continue to erode behind the stone and result in failure of the stone protection.

As a remedial measure, the Corps of Engineers required the contractor to place a 6-inch dike of 1-1/2-inch minus rock in selected "low" areas to minimize the probability of erosion. No further settlement of the stone protection has been noted.



Unit 103  
 submitted with mail  
 308245  
 J. [Signature]  
 [Signature]

Colonel Donald M. O'Shei  
Page 2

At the October 10, 1978 inspection, representatives of Reclamation District No. 563 accepted the work with the "reservation" that should the remedial measures taken at Site Mile 1.3 fail, the Reclamation District may request the Corps of Engineers through The Reclamation Board, to appraise the damage and repair as required.

The Reclamation Board reserves the right to review the work with the Corps of Engineers at a later date if necessary.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Unit 103*

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

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



DEC 22 1978

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

Dear Colonel O'Shei:

At its regular meeting of November 17, 1978, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of Unit 32 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter dated October 12, 1978.

The flood control work was done at Sites Miles 11.4, 9.3, 7.7, 6.3 and 5.6 Left Bank of Georgiana Slough.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5255, Specification No. 5183 and Contract No. DACW05-78-C-0012, insofar as could be determined visually.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Unit 103*  
*Reels minus cert mail 308294*  
*OK*  
*OK*  
*OK*  
*OK*  
*OK*



DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

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



DEC 22 1978

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 December 14, 1978, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 33 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of December 12, 1978.

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 15.5, 17.4, 21.5, 23.4 and 27.4 Right Bank, and Sites Miles 19.9, 20.4, 21.0, 22.0, 22.2, 23.6, 27.8 and 29.8 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5347, Specification No. 5269, and Contract No. DACW 05-77-C-0101, insofar as could be determined visually.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units 103/104/111*  
*Edmond G. Brown Jr.*  
*Gov. of California*  
*Back into cert mail*  
*308 373*





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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**

**12 December 1978**

**The Reclamation Board  
State of California  
1416 Ninth Street, Room 335  
Sacramento, California 95814**

**Gentlemen:**

This is in regard to the joint inspection of 22 November 1978, made for the purpose of transferring a portion of the Sacramento River Bank Protection (Unit No. 33), to the State of California for operation and maintenance. The flood control work consists of levee and bank sloping and placement of stone protection on the Sacramento River right bank at site miles 15.5, 17.4, 21.5, 23.4, and 27.4 and left bank at site miles 19.9, 20.4, 21.0, 22.0, 22.2, 23.6, 27.8, and 29.8. The sites described on the inclosure were completed on 22 November 1978 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269, and Drawing No. 50-4-5347.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960) and Section 2304 (a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work, together with the waterway bank contiguous thereto, is transferred as of 12 December 1978 to the State of California for operation and maintenance.

This portion of the work will be added by amendments to the Operations and Maintenance Manual, Supplement Nos. 103, 104, and 111, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

**DONALD M. O'SHEI**  
Colonel, CE  
District Engineer

Copy furnished:  
DWR, ATTN: R. Franson  
DWR, ATTN: R. Potter

**EXHIBIT F**

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

**Right Bank**

<u>Site</u>	<u>Stone Protection</u>	<u>L.F.</u>
* 15.5	Sta 68+95 to Sta 80+85	1190
17.4	Sta 71+50 to Sta 80+50	900
21.5	Sta 5+15 to Sta 13+30	815
23.4	Sta 0+85 to Sta 18+00	1715
* 27.4	Sta 6+00 to Sta 20+25	1425

**Left Bank**

19.9	Sta 184+30 to Sta 189+20	490
20.4	Sta 157+70 to Sta 161+60	390
21.0	Sta 122+25 to Sta 132+65	1040
22.0	Sta 67+85 to Sta 69+75	190
22.2	Sta 55+75 to Sta 61+00	525
23.6	Sta 90+25 to Sta 98+35	810
27.8	Sta 2+60 to Sta 11+50	890
29.8	Sta 185+75 to Sta 191+45	570

\* = EXTENDED



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Y

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

C  
O  
P  
Y

REPLY TO  
ATTENTION OF SPKCO-0

7 April 1981

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

Gentlemen:

This is in regard to the joint inspection of 26 March 1981 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 33), to the State of California for operation and maintenance. The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 16.5, 18.2, 32.5, 34.1, and 34.5 and right bank at Site Miles 44.4, 45.4, 45.6, and 47.6. The sites described in the inclosure were completed on 26 March 1981 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269 and Drawing No. 50-4-5347.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304 (a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of 26 March 1981 to the State of California for operation and maintenance.

This portion of work completes all sites under Unit 33 and will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 102, 103, 111, and 114, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

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

**HENRY LEE**  
**Lieutenant Colonel, CE**  
**Acting District Engineer**

Copy furnished: w/Incl  
DWR, ATTN: G. Piazza; DWR, ATTN: D. Meixner

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

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
16.5 left bank	22+85 to 25+45	260
18.2 left bank	27+00 to 30+25	325
32.5 left bank	3+65 to 18+00	1435
34.1 left bank	28+00 to 36+35	835
34.5 left bank	15+50 to 18+20	270
44.4 right bank	0+85 to 7+75	690
45.4 right bank	30+00 to 41+00	1100
45.6 right bank	11+80 to 23+00	1120
47.6 right bank	4+10 to 12+00	790

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

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



APR 30 1981

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

Dear Colonel Kavanaugh:

The Reclamation Board at its regular meeting of April 17, 1981, formally accepted the completed flood control work from the District Engineer. This work is a portion of Unit No. 33 of the Sacramento River Bank Protection Project. The work was transferred to the State of California by your letter of April 7, 1981.

The flood control work was constructed in a workmanlike manner and in conformance with File No. 50-4-5347, Specification No. 5269, and Contract No. DACW05-77-C-0101 insofar as could be determined visually, at Sites Miles 16.5, 18.2, 32.5, 34.1 and 34.5 Left Bank, and 44.4, 45.4, 45.6 and 47.6 Right Bank, Sacramento River.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED



*Units 102, 103, 111, 114*

*EMG*

December 13, 1985

Navigation and Flood Control Unit

*not*

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

Members of the Board:

This is in regard to the joint inspections of December 20, 1984, November 26, 1985 and December 6, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 37), 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 15.9, 16.0, 17.6, 18.2, 27.2, 27.6, 31.0, 33.5, 34.6, 43.9, 44.9 and 45.2 and left bank at Site Miles 8.5, 10.4, 17.9, 19.1, 20.5, 21.4, 21.6, 23.4, 24.1, 36.0, 36.2 and 40.0; Steamboat Slough right bank at Site Miles 15.9, 16.0, 16.8, 17.1, 19.8 and 25.3 and left bank at Site Mile 25.3; Sutter Slough right bank at Site Mile 22.0; and Georgiana Slough left bank at Site Mile 12.1.

The sites were completed during the past construction season in accordance with Contract Number DACW05-84-C-0104, Specification Number 7014 and Drawing Number 50-4-5697.

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 December 13, 1985 to the State of California for operation and maintenance.

*Units 101, 102, 103,  
104, 105, 110, 111, 112, 114*



This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 101, 102, 103, 104, 105, 110, 111, 112 and 114, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Wayne J. Scholl  
Colonel, Corps of Engineers  
District Engineer

12-13  
ROMPALA/mg

REC  
KELLY

Copies Furnished:

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

A. SMITH

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

HEP  
FAST

DEWIS

WILLIAM

Reclamation Board

Rompala N&F.C.U.

<p>SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.</p> <p>(CONSULT POSTMASTER FOR FEES)</p> <p>The following service is requested (check one).</p> <p><input type="checkbox"/> Show to whom and date delivered .....</p> <p><input type="checkbox"/> Show to whom, date, and address of delivery .....</p> <p><input type="checkbox"/> RESTRICTED DELIVERY .....</p> <p><small>(The restricted delivery fee is charged in addition to the return receipt fee.)</small></p>		<p>TOTAL \$</p>	
<p>3. ARTICLE ADDRESSED TO: State of California 1416 - 9th Street, Rm 455-6 Sacramento, California</p>		<p>ARTICLE NUMBER 783773</p>	
<p>4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> EXPRESS MAIL</p>		<p><input type="checkbox"/> INSURED <input type="checkbox"/> COD</p>	
<p>I have received the article described above.</p>			
<p>SIGNATURE <i>R. L. Manning</i></p>		<p>7a. EMPLOYEE'S INITIALS</p>	
<p>5. DATE OF DELIVERY DEC 17 1983</p>		<p>POSTMARK (may be on reverse side)</p>	
<p>6. ADDRESSEE'S ADDRESS (Only if requested)</p>		<p>7. UNABLE TO DELIVER BECAUSE:</p>	

SCHOLL

12/14  
WANG #2977a

Units  
101, 102, 103, 104,  
105, 110, 111, 112, 114

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD1416 - 9th Street, Room 455-6  
Sacramento, CA 95814  
(916) 445-9454

MAR 18 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 December 13, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 37 to the State of California for operation and maintenance.

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

## SACRAMENTO RIVER

Left Bank: Sites Miles 8.5, 10.4, 17.9, 19.1, 20.5, 21.4, 21.6, 23.4, 24.1, 36.0, 36.2, and 40.0

Right Bank: Sites Miles 15.9, 16.0, 17.6, 18.2, 27.2, 27.6, 31.0, 33.5, 34.6, 43.9, 44.9, and 45.2

## STEAMBOAT SLOUGH

Left Bank: Site Mile 25.3

Right Bank: Sites Miles 15.9, 16.0, 16.8, 17.1, 19.8, and 25.3

## SUTTER SLOUGH

Right Bank: Site Mile 22.0

## GEORGIANA SLOUGH

Left Bank: Site Mile 12.1

*Amis 101, 102, 103, 104,  
105, 110, 111, 112, 114*

Colonel Wayne J. Scholl  
Page 2

MAR 18 1986

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5697, Specification No. 7014, and Contract No. DACW 05-84-C-0104, insofar as could be determined visually.

The Reclamation Board, at its regular meetings of December 20, 1985, and January 17, 1986, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance, with the exception of Site Mile 16.0, Right Bank, Sacramento River.

A joint inspection was made on December 5, 1985 which included Site Mile 16.0. During this inspection, several large slumps in the rock revetment were observed. It was agreed that the slumps in the rock revetment would be repaired in conjunction with deficiencies noted at various other sites. For some reason, your contractor overlooked the repairs required at this site.

Mr. Sterling Olsen of the Valley Resident's Office has indicated that this site will be repaired in the spring of 1986. When this site has been repaired, we will be pleased to accept it for operation and maintenance.

If you have any questions concerning the above, please contact me at (916) 445-9454 or Mr. Richard Goodnight at (916) 445-9335.

Sincerely,



RAYMOND E. BARSCH  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

cc: Mr. Ralph Cameron  
Resident Engineer  
Valley Resident's Office  
U. S. Army Corps of Engineers  
P. O. Box 935  
West Sacramento, CA 95691

Units 101, 102, 103, 104,  
105, 110, 111, 112, 114

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

May 8, 1987



*Clark file*

Navigation and Flood Control Unit

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

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to project levees under authority of Section 5 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on March 27, 1987, and consisted of restoring the Georgiana Slough left bank levee in Reclamation District 56 in accordance with Contract Number DACW05-86-C-0124 and Drawing Number 50-4-5775. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Flood Control Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 103, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

*M 5-15*

*ROMPALA/jg*

*RCK*

*A. SMITH*

*HEM*

*DENNIS*

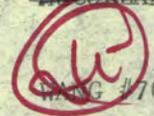
*WRC*  
*CLOYD*

*WANG #7086a*

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

Sincerely,

Walter L. Cloyd III  
LTC, Corps of Engineers  
Acting District Engineer



Copies Furnished:

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



*not*  
*Unit 103*

September 29, 1988

Navigation and Flood Control Unit

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

*msj*

Members of the Board:

This is in regard to the joint inspection of September 7, 1988, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 41A), to the State of California for operation and maintenance. The flood control work consists of bank sloping and placement of stone protection on Sutter Slough right bank at Site Mile 22.5; Steamboat Slough right bank at Site Miles 21.1 and 22.9 and Sacramento River right bank at Site Mile 23.2 and left bank at Site Miles 19.2 and 19.7.

The sites were completed on August 12, 1988, in accordance with Contract Number DACW05-87-C-0079, Specification Number 8054 and Drawing Number 50-4-5777.

*9-28*  
BOMPALA/mt

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), 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 September 29, 1988 to the State of California for operation and maintenance.

*ck*  
KELLY

*AS*  
A. SMITH

*HEIM*  
HEIM

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 103, 104, 105 and 110, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

*J*  
FAST

*DENNIS*  
DENNIS

*MASON*  
MASON  
CZARZASTY

Sincerely,

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

*LE CUYER*  
LE CUYER

Copies Furnished:

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

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

*Units 103, 104, 105, 110*

WANG #0794a

*J. J.*



November 16, 1989

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 inspections of November 8 & 9, 1989, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 42) to the State of California for operation and maintenance. The flood control work consists of bank sloping, placement of stone protection and miscellaneous work on the Sacramento River right bank at Site Miles 23.6, 26.7, 42.7, 43.5, 56.5 and 56.7 and left bank at Site Miles 20.2, 33.3 and 36.1; Georgiana Slough right bank at Site Miles 7.9 and 8.1 and left bank at Site Miles 4.8 and 11.7; Steamboat Slough right bank at Site Mile 22.1 and left bank at Site Miles 19.8, 23.2 and 25.9, and Sutter Slough left bank at Site Mile 22.2.

The sites were completed on November 8, 1989, in accordance with Contract Number DACW05-89-C-0037, Specification Number 8259 and Drawing Number 50-4-5784.

*11-14-89*  
ROMPALA/mt

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of November 9, 1989 to the State of California for operation and maintenance.

*in for*  
KELLY  
A. SMITH  
*[Signature]*  
HEIN

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 103, 104, 110, 111, 113, 114 and 116, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

FAST

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

Sincerely,

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

DENNIS  
MASON  
*[Signature]*  
Le CUYER

*Units 103, 104, 110, 111, 113, 114, 116*

Copies Furnished:

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

PC#LTRUNIT42

*2*





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

REPLY TO  
ATTENTION OF

APR 20 2001

Navigation and Flood Control Unit

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 L.M. 3.57-3.96, in RD 556 to the State of California for operation and maintenance.

The work consisted of restoring the left bank of the Sacramento River damaged by the January 1997 Flood by building a 50-foot stability berm utilizing salvaged aggregate material. The berm has 24- by 48-inch relief toe drains, 50-foot O.C. A 50-foot-wide, 20-foot-thick ramp was built with geotextile fabric, using 6-inch recycled asphalt and aggregate base course. A 24-inch-wide, 7-foot-deep ditch was built with Class I Type B permeable material along and under the ramp edge. A 3-inch AC (Type B) placed on a 6-inch aggregate base was placed along Isleton Road by Neil Stone's driveway (south of Souza's property). Three hundred linear feet of perforated pipe and 30-feet of non-perforated pipe were placed beyond an existing residence at L.M. 3.96. The work as listed in the enclosure was completed on November 30, 1997, in accordance with Specification No. 9926E, Drawing File No. 50-04-6036, Contract No. DACW05-97-C-0148.

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 RD 556. 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,

Robert A. O'Brien III  
Lieutenant Colonel,  
Corps of Engineers  
Deputy District Engineer

Enclosure

**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

SEP 21 2001



Mr. Christopher Lee, President  
 Reclamation District No. 556  
 Post Office Box 144  
 Walnut Grove, California 95690

Dear Mr. Lee:

The U.S. Army Corps of Engineers has completed the 1997 flood-damage repair on the left-bank levee of the Sacramento River (Levee Mile 3.57 to LM 3.96) in Reclamation District No. 556. Mr. Ron Bertoli of the Department of Water Resources' System Integrity Section contacted you by telephone on August 14, 2001 and received assurance of acceptance for the completed repair. The Corps has transferred the completed repair to the State of California for operation and maintenance (see enclosed letter). At its September 21, 2001 meeting, on behalf of the State of California, The Reclamation Board accepted the completed repair.

The Board hereby transfers the completed repair to RD 556 for operation and maintenance. The Corps has advised the Board that the completed repair will be added by amendment to the Operation and Maintenance Manual, Sacramento River Flood Control Project. In the interim, RD 556 will perform operation and maintenance in accordance with the current O&M Manual. As-constructed plans are enclosed.

If you have any questions, you may contact Peter D. Rabbon, General Manager of The Reclamation Board, at (916) 653-5434, or your staff may contact Debbie Carlisle, Chief of DWR's System Integrity Section of the Division of Flood Management, at (916) 574-0634.

Sincerely,

**ORIGINAL SIGNED BY**

Betsy A. Marchand  
 President

Enclosures

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

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



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\_\_) on both levees of Georgiana Slough and the east side (left bank) of the Sacramento River from Walnut Grove to Isleton.

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

(Superintendent's summary of conditions)

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

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

b. During this report period, major high water stages (water surface in the Sacramento River reached or exceeded the reading of 12.30 on the gage at Walnut Grove and for the lower end of Georgiana Slough water surface reached or exceeded the reading of 5.50 on the gage located on the end of Georgiana Slough) 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