
SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

SACRAMENTO RIVER
FLOOD CONTROL PROJECT

UNIT NO. 133
LEVEES OF RECLAMATION DISTRICT NO. 1660
EAST LEVEE OF SACRAMENTO RIVER
FROM
WINSHIP SCHOOL TO TISDALE BY-PASS
AND
NORTH LEVEE OF TISDALE BY-PASS
AND
WEST LEVEE OF SUTTER BY-PASS
FROM
LONG BRIDGE TO TISDALE BY-PASS



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

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EAST LEVEE OF SACRAMENTO RIVER
FROM
WINSHIP SCHOOL TO TISDALE BY-PASS
AND
NORTH LEVEE OF TISDALE BY-PASS
AND
WEST LEVEE OF SUMNER BY-PASS
FROM
LONG BRIDGE TO TISDALE BY-PASS

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

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FROM
LONG BRIDGE TO TISDALE BY-PASS

LOCATION	ADDITION OR REVISION	DATE
1-04 d.	Add contract no. 64-75	Jun 1965
1-05 Section IV	Add contract no. 64-75	Jun 1965
Exhibit B	Add drawing no. 50-4-3735	Jun 1965
Exhibit F	Add copy of letter of acceptance dated 9 Nov 1964	Jun 1965
1-04 e.	Add contract no. 65-15	Jun 1966
1-05 Section V	Add contract no. 65-15	Jun 1966
Exhibit B	Add drawing no. 50-4-3754	Jun 1966
Exhibit F	Add letter of transfer dated 26 Oct 1965	Jun 1966
1-04 & 1-05	Add subparagraph f. Section VI	Jan 1976
2-01	Add subparagraph c.	Jan 1976
Exhibit B	Add drawing no. 50-4-4777	Jan 1976
Exhibit F	Add copy of letter of acceptance dated 9 Jul 1974	Jan 1976
1-04	Add subparagraph g. Section VII	Feb 1979
1-05	Add subparagraph g. Section VII	Feb 1979
2-01	Delete subparagraph c. (Jan 1976)	Feb 1979
2-05	Add environment protection	Feb 1979
Exhibit B	Added drawing no. 50-4-5011	Feb 1979
Exhibit F	Added acceptance letter dated 25 Aug 1977	Feb 1979
1-04	Add subparagraph h. Section VIII	Nov 1983
1-05	Add subparagraph h. Section VIII	Nov 1983
Exhibit B	Add drawing no. 50-4-5438	Nov 1983
Exhibit F	Add copy of letter of transfer dated 30 Nov 1982	Nov 1983
1-04	Add subparagraph i. Section IX	22 Dec 2010
1-05	Add subparagraph i. Section IX	22 Dec 2010
Exhibit B	Add drawing no. 50-4-4542	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 23 Jun 1947	22 Dec 2010

LOCATION	ADDITION OR REVISION	DATE
Exhibit F	Add copy of letter of acceptance dated 2 Jul 1947	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 8 Dec 1951	22 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1951	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 13 Feb 1953	22 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 9 Mar 1953	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 16 Feb 1959	22 Dec 2010
1-04	Add subparagraph j Section X	22 Dec 2010
1-05	Add subparagraph j Section X	22 Dec 2010
Exhibit B	Add drawing no. 50-4-3531	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 21 Oct 1964	2 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 20 Feb 1967	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 20 Jun 1974	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 11 Aug 1977	8 Mar 2011
1-04	Add subparagraph k Section XI	8 Mar 2011
1-05	Add subparagraph k Section XI	8 Mar 2011
Exhibit B	Add drawing no. 50-4-5806	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 21 Dec 1982	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 13 Jan 1995	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 31 Mar 1995	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 29 Nov 2016	29 Dec 2016

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<u>EXHIBIT</u>	<u>DESCRIPTION</u>
A	Flood Control Regulations Unattached (Contained in Standard Manual)
A-1	Location Drawing 1 Sheet
B	"As Constructed" Drawings Unattached
C	Plates of Suggested Flood Fighting Methods Unattached (Contained in Standard Manual)
D	Check List No. 1 Levee Inspection Report Unattached (Contained in Standard Manual)
E	Check Lists - Levees, Channels and Structures Sheets 1 thru 7
F	Letters of Acceptance by State Reclamation Board Sheets 1 thru 4
G	Semi-Annual Report Form Sheets 1 and 2

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FROM
LONG BRIDGE TO TISDALE BY-PASS

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 Winship School downstream to Tisdale By-pass, the north levee of Tisdale By-pass and the west levee of Sutter By-pass from Long Bridge downstream to Tisdale By-pass. Sutter and Tisdale By-passes are leveed floodways which convey excess flood waters from the Sacramento River. The main channel of the Sacramento River within this unit is leveed along both banks and conveys normal flows in addition to flood flows of the Sacramento River system. The levees of this unit are located in Reclamation District No. 1660, in Sutter County, California, in the general vicinity of the town of Meridian. The location of the completed unit covered by this manual is shown on Exhibit A-1. This manual covers and supersedes a portion of the supplemental manual issued by this office which was designated as Unit No. 10 (east levee of Sacramento River between Meridian Bridge and Tisdale Weir) and which is now obsolete and should be destroyed.

1-02. Protection Provided. The main channel of the Sacramento River, Sutter By-pass, and Tisdale By-pass located within Unit No. 133 are essential features of the Sacramento River Flood Control Project. The primary function of the by-passes is to carry excessive overflow waters of the Sacramento River and its tributaries. The levees of this unit provide protection to adjacent agricultural lands and the town of Meridian against flood waters of the Sacramento River, Tisdale By-pass and Sutter By-pass. The grade of the adopted flood plane profile in the Sacramento River varies from elevation 57.0 at Winship School to

elevation 54.49 upstream from Tisdale Weir. The grade of the adopted flood plane profile along Tisdale By-pass varies from elevation 53.0 downstream from Tisdale Weir to elevation 50.2 at Sutter By-pass. And the grade of Sutter By-pass varies from elevation 56.7 at Long Bridge to elevation 50.2 at its junction with Tisdale By-pass. All elevations are referred to U. S. Corps of Engineers datum. The levee project grade along Sutter By-pass and Tisdale within this unit provide a freeboard which equals or exceeds 6 feet. Along the Sacramento River the levee grade provides a freeboard of 3 feet or greater above the flood plane profile. The project design capacity of the Sacramento River is 66,000 cubic feet per second; Sutter By-Pass is 178,000 cubic feet per second and Tisdale By-pass is 38,000 cubic feet per second within this unit.

1-03. Project Works. The flood-control improvement covered by this manual is a part of the Sacramento River Flood Control Project authorized by the Flood Control Act of 1917 as modified by the Acts of 1928, 1937, and 1941, and consists of:

- a. The east levee and banks of the Sacramento River from Winship School southerly (downstream) 3.0 miles to Tisdale Weir as constructed by local interests and/or as re-constructed by levee setbacks and bank protection works by the Corps of Engineers to adopted grade and section and as provided with gravel surfacing for patrol road purposes.
- b. The north levee and channel of Tisdale By-pass from the Sacramento River to Sutter By-pass as built by local interests and re-constructed by the Corps of Engineers to adopted grade and section.
- c. The west levee of Sutter By-pass from Long Bridge southerly (downstream) 10.1 miles to its junction with the north levee of Tisdale By-pass as constructed by local interests and/or as enlarged by the Corps of Engineers to adopted grade and section.

1-04 Construction Data. Unit No. 133 of the flood control works described in this manual forms an integral part of the Sacramento River Flood Control Project. In addition to emergency bank protection work and building of levees by local interests, the construction to bring this unit to project standards was completed in three sections described as follows:

a. Section I. Enlargement to adopted grade and section of the west levee of Sutter By-pass from Long Bridge southerly (downstream) 10.1 miles to its junction with Tisdale By-pass and north levee of Tisdale By-pass. Work on this section was completed under two contracts. The north levee of Tisdale By-pass was completed on 8 May 1941 and the west levee of Sutter By-pass portion was completed on 27 November 1941.

b. Section II. Levee setback and bank protection work on the east levee of the Sacramento River from Winship School southerly (downstream) 3.0 miles to Tisdale Weir. Work was started on 5 June 1950 and completed on 17 Nov 1951.

c. Section III. Site “D”, levee enlargement and bank protection on the left bank (east levee) of the Sacramento River from mile 118.9 to mile 119.4. Work on this portion was started on 1 July 1952 and completed on 17 February 1953.

d. Section IV. Bank protection work on the right bank (west levee) of Sutter Bypass from Oswald Bridge to Tisdale Bypass. Work on this portion was started on 6 May 1964 and completed on 14 October 1964.

e. Section V. Bank protection, right and left banks Sacramento River at various locations between Colusa and Boyers Bend. Work on this portion was started on 22 September 1964 and completed on 5 November 1965.

f. Section VI. Stone protection, bank sloping and selective clearing on the left bank of the Sacramento River at Site Mile 120.1 (a portion of Unit 26) was accomplished under Contract No. DACW05-73-C-0059 by Luhr Brothers, Inc. during the period from 7 December 1972 to 15 November 1974. Specification No. 4251, Drawing No. 50-4-4777.

g. Section VII. Stone protection, bank sloping and selective clearing on the left bank of the Sacramento River at Site Miles 119.8, 120.3, 121.5, and 121.7 (of Unit 29) was accomplished under Contract No. DACW05-76-C-0084 by Claude C. Wood Company during the period from 28 June 1976 to 9 August 1977. Specification No. 4833. Drawing No. 50-4-5011.

h. Section VIII. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Mile 120.7 L (a portion of Unit 35) was accomplished under Contract No. DACW05-81-C-0036 by Francis Construction Inc. Construction was completed on 18 November 1982. Specification No. 5472, Drawing No. 50-4-5438.

i. Section IX. Seepage ditch filled with drain material constructed on left bank Sutter Bypass in 1970 from 2800 feet upstream of Oswald Road to 13,800 feet downstream of Oswald road under Contract No. DACW05-71-C-0011. Specification No. 3793, Drawing No. 50-4-4542. No Transfer Letter found.

j. Section X. Emergency repairs consisting of construction of relief wells and seepage drains along the west levee of Sutter Bypass from Wadsworth Canal to Gilsizer Slough was completed on 14 November 1958 under Contract No. DA-04-167-CIVENG-59-2. Specification No. 2463, Drawing No. 50-4-3531.

k. Section XI. Stone protection, selective clearing, excavation, and other miscellaneous work on the left bank of the Sacramento River, Site Mile 121.6, was completed on 16 November 1994 under Contract No. DACW05-94-C-0044. Specification No. 8385, Drawing No. 50-4-5806.

1-05. Contractor. Work, as referred to above, was performed under the following contracts, copies of which are on file with the Corps of Engineers, U.S. Army, Sacramento District, Sacramento, California:

a. Section I. Enlargement to standard grade and section of the west levee of Sutter By-pass from Long Bridge southerly 5.3 miles was accomplished under Contract No. 2880 by Parish Bros., Contractor. Also enlargement to standard grade and section of the west levee of Sutter By-pass from 5.3 miles south of Long Bridge to Tisdale Weir was accomplished under contract No. 2837 by A. Teichert & Son, Contractor.

b. Section II. Levee setback and bank protection work of the Sacramento River within this unit was accomplished under Contract No. DA-04-167-eng-272, by H. Earl Parker, Inc., contractor.

c. Section III. Levee enlargement and bank protection on the east levee of the Sacramento River from mile 118.9 to mile 119.4 was accomplished under Contract No. DA-04-167-eng-806 by H. Earl Parker, Inc., contractor.

d. Section IV. Bank protection work on the west levee of Sutter Bypass from Oswald Bridge to Tisdale Bypass was accomplished under Contract No. DA-04-167-CIVENG-64-75 by H. Earl Parker, Inc., Specification No. 2917, Drawing no. 50-4-3735.

e. Section V. Bank protection on the Sacramento River was accomplished under Contract No. DA-04-167-CIVENG-65-15 by Elmer G. Wendt, Inc. Specification No. 3024, Drawing 50-4-3754.

f. Section VI. Stone protection, bank sloping and selective clearing on the left bank of the Sacramento River at Site Mile 120.1 (a portion of Unit 26) was accomplished under Contract No. DAC05-73-C-0059 by Luhr Brothers, Inc. during the period from 7 December 1972 to 15 November 1974. Specification No. 4251, Drawing No. 50-4-4777.

g. Section VII. Stone protection, bank sloping and selective clearing on the left bank of the Sacramento River at Site Miles 119.8, 120.3, 121.5, and 121.7 (of Unit 29) was accomplished under Contract No. DACW05-76-C-0084 by Claude C. Wood Company during the period from 28 June 1976 to 9 August 1977, Specification No. 4833, Drawing No. 50-4-5011.

h. Section VIII. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Mile 120.7 L (a portion of Unit 35) was accomplished under Contract No. DACW05-81-C-0036 by Francis Construction Inc. Construction was completed on 18 November 1982. Specification No. 5472, Drawing No. 50-4-5438.

i. Section IX. Seepage ditch filled with drain material constructed on left bank Sutter Bypass in 1970 from 2800 feet upstream of Oswald Road to 13,800 feet downstream of

Oswald road under Contract No. DACW05-71-C-0011. Specification No. 3793, Drawing No. 50-4-4542. No Transfer Letter found.

j. Section X. Emergency repairs consisting of construction of relief wells and seepage drains along the west levee of Sutter Bypass from Wadsworth Canal to Gilsizer Slough was completed on 14 November 1958 under Contract No. DA-04-167-CIVENG-59-2. Specification No. 2463, Drawing No. 50-4-3531.

k. Section XI. Stone protection, selective clearing, excavation, and other miscellaneous work on the left bank of the Sacramento River, Site Mile 121.6, was completed on 16 November 1994 under Contract No. DACW05-94-C-0044. Specification No. 8385, Drawing No. 50-4-5806.

1-06. Flood Flows. For purposes of this manual, the term “flood” or “high water period” shall refer to flows when the water surface in the Sacramento River reaches or exceeds the reading of 51.0 at Recl. Dist. No. 70 pump or when the water surface in Sutter By-pass reaches or exceeds the reading of 50.0 on the State of California Division of Water Resources gage at Long Bridge. Also when the water surface at Tisdale Weir reaches or exceeds the reading of 48.0 on the gaging station located on the left bank of the Sacramento River at the north end of Tisdale Weir. Also when the water surface reaches or exceeds the reading of 43.0 on the Reclamation District No. 1660 gage on the north levee of Tisdale By-pass two miles east of Tisdale Weir at District drainage pumping plant. All gages are set on U. S. Corps of Engineers datum.

1-07. Assurances Provided by Local Interests. Assurance of cooperation by local interests is provided by State legislation, as contained in Chapter 3, Part 2, Division 5 of the State Water Code (see paragraph 2-02a of the Standard Manual).

1-08. 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 23 July 1947, 2 July 1947, 2 April 1952 and 23 July 1947, as shown on the attached letters of acceptance, Exhibit F.

1-09. Superintendent. The name and address of the Superintendent appointed by local interests to be responsible for the continuous inspection, operation, and maintenance of the project works shall be furnished the District Engineer, and in case of any change of Superintendent, the District Engineer shall be so notified.

SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees.

a. Description. Levees described in this manual are located along the easterly side of the Sacramento River from Winship School to Tisdale By-pass, the north levee of Tisdale By-pass and the west levee of Sutter By-pass from Long Bridge to Tisdale By-pass. All levees of this unit have been re-constructed to adopted grade and section. For more complete detail of items included in construction of above mentioned levees, reference is made to the "As Constructed" drawings of Exhibit B. Structures affecting levee maintenance are listed in Exhibit E.

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

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

*C. →

2-02. Drainage and Irrigation Structures.

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

Location :	Size and	Other Structure	Elev. of Invert
Station :	Kind of Pipe :	Description	at Pipe

EAST LEVEE SACRAMENTO RIVER

2+07.8	24" C.M.P.	No. 101 slide head gate, 2 C.M. cut-off walls.	45.3
2+07.8	15" steel	Pump on R.S., No. 101 gate, pipe along R.S. berm to spillbox on R.S. slope of levee.	44.5
2+07.8	12" steel	No. 102 gate, pipe along R.S. berm to spillbox on R.S. slope of levee.	43.0
10+45	2-24" C.M.P.	No. 102 gates, pipe encased in concr. for length of 50 ft., 2 concr. cut-off walls.	43.0

201.
*

~~c. Environmental Values. Vegetation preserved as a part of selective clearing on the waterside berm or slope above the bank protection during prosecution of the contract shall not be removed as a part of normal maintenance as long as it remains alive and in a healthy state.~~

Deleted Jan 1976

Location : Station :	Size and Kind of Pipe :	Other Structure Description :	Elev. of Invert at Pipe
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EAST LEVEE SACRAMENTO RIVER (Continued)

10+45	18" steel	Pump on R.S., concr. spillbox with 48" No. 101 gate.	43.0
10+45	24" steel	Pump R.S., discharge to concr. spillbox.	43.0
2+86.15	14" steel	Pump and motor R.S. slope, 2-C.M. cut-off walls.	53.0
16+76.12	18" steel	Valve stem R.S. crown, 2 concr. cut-off walls, pipe encased in concr.	34.3

NORTH LEVEE OF TISDALE BYPASS

1094+80	54" concr.	Concr. shaft with screw type gate R.S. pipe extends across Tisdale By-pass.	
1044+60	2-4'x7' Concr. tunnels.	Dist. No. 1660 drainage pump. Concr. shaft with 2 screw type gates R.S.	

WEST LEVEE SUTTER BYPASS

433+43	48" C.M.P.	Gate R.S.	
501+97	18" steel	Pump and gate R.S.	
910+87	7.5' x 6' concr. culvert.	Concr. shaft with screw type gate R.S.	

Notes pertaining to gates and abbreviations:

Gate Model No. 101 is a Calco slide gate which operates by hand screw on a steel frame.

Gate Model No. 102 is a Calco automatic drainage flap gate which closes against face pressure and opens to permit outflow when pressure is released.

Abbreviations are as follows:

- C.M. = Corrugated Metal
- C.M.P. = Corrugated Metal Pipe
- R.S. = Riverside

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

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

2-03. Channels.

a. Description. The main leveed section of the Sacramento River from Winship School to Tisdale Weir has a project design capacity of 66,000 cubic feet per second and width of about 400 feet. Overflow waters of the Sacramento River system, after passing through Butte Basin over natural overflow channels of Moulton and Colusa Weirs, are concentrated in Sutter By-pass which has a width of 4,000 feet at its upper end, levees 18 to 20 feet in height and a project design capacity of 178,000 cubic feet per second in that portion of Sutter By-pass to Tisdale By-pass. Flows in the Sacramento River are further relieved at Tisdale Weir from which waters are discharged through a leveed by-pass (Tisdale By-pass) which has a project design capacity of 38,000 cubic feet per second and a width of about 950 feet.

Since the channel of the Sacramento River from Winship Scholl to Tisdale By-pass is utilized for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channel of the Sacramento River shall be limited to flood control and the requirements, which follow, shall be observed only to that extent.

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

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

It shall be the duty of the Superintendent to maintain a patrol of the works during all periods of flood in excess of a reading of 50.0 on the gage at Long Bridge, 48.0 on the gage at Tisdale Weir and 43.0 on the gage at Reclamation District No. 1660 drainage pump as indicated in paragraph 1-06 of this manual. The Superintendent shall dispatch a message by the most suitable means to the District Engineer whenever the water surface reaches gage readings as indicated above. The Superintendent shall cause readings to be taken at said gates at intervals of two to four hours during the period when the water surface is above the flood-flow stage indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-06 of the Standard Manual.

2-04 Miscellaneous Facilities.

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

- (1) Bridges. (for further details see Exhibit B).
 - (a) Concrete bridge over Tisdale Weir with 10 feet roadway.
 - (b) Timber trestle of S.P.R.R. Co. across Tisdale By-pass at station 1042+65.
 - (c) County road bridge at approximate station 491+87 across borrow pit along west levee of Sutter By-pass.
 - (d) Wood bridge across borrow pit at approximate station 646+15 along west levee of Sutter By-pass
 - (e) Wood bridge across borrow pit at approximate station 760+30 along west levee of Sutter By-pass.

(2) Dams.

- (a) Wood dams across borrow pit at approximate station 434+73 along west levee of Sutter By-pass.
- (b) Weir No. 3 across borrow pit at approximate station 647+65 along west levee of Sutter By-pass.
- (c) Flashboard dam across borrow pit at approximate station 905+12 along west levee of By-pass.

(3) Utility Relocation. None

(4) Hydrographic Facilities. Gages at R.D. 70 pump, Tisdale Weir, Long Bridge, and R.D. No. 1660 pump as referred to in paragraph 1-06 of this manual.

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

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

2-05. Environment Protection.

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

b. 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 Mile 119.8, 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 VIII of the revised Standard Manual, where the subject is fully covered.

EXHIBIT A

FLOOD CONTROL REGULATIONS

(See Standard Manual)

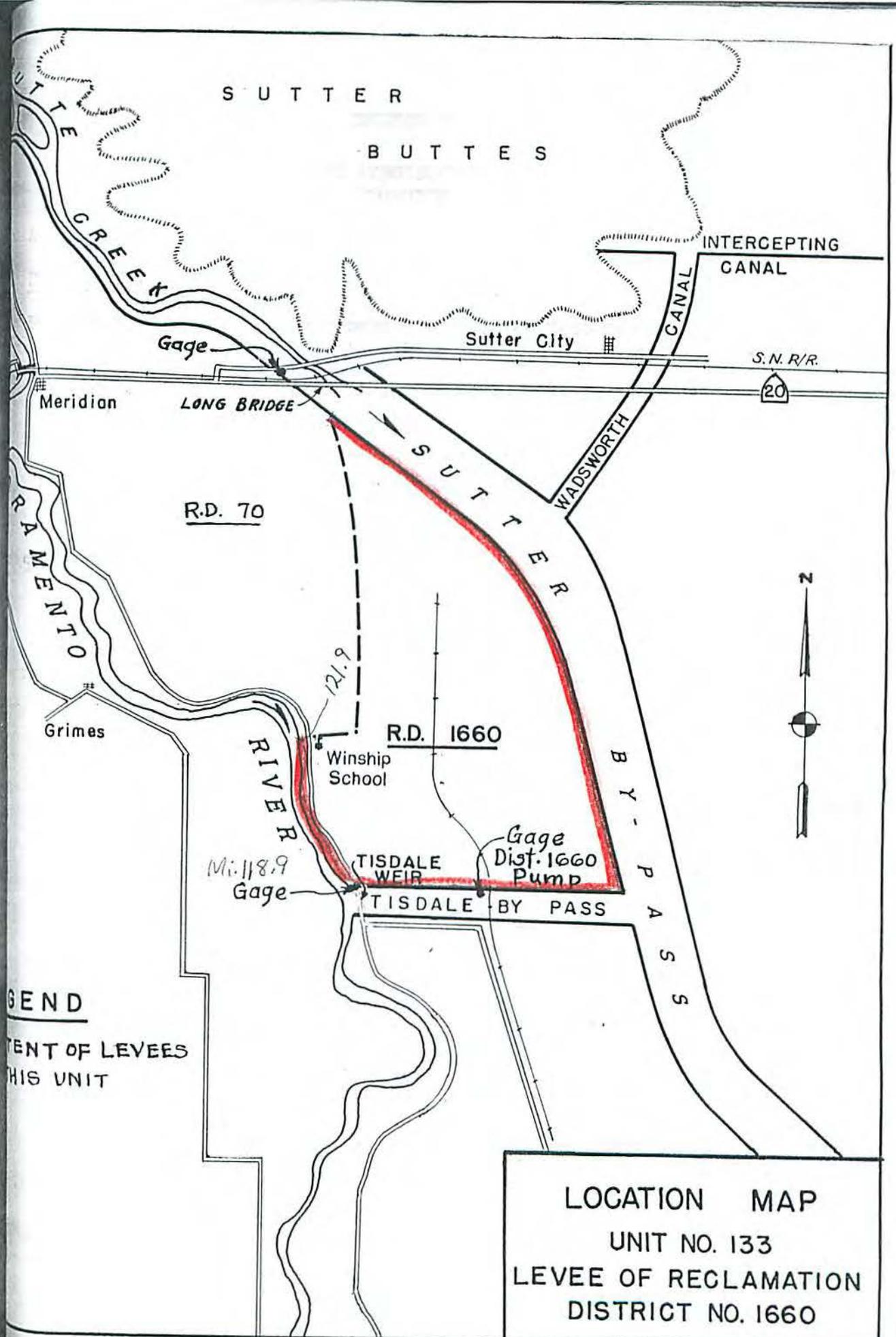


EXHIBIT B

“AS CONSTRUCTED”
DRAWINGS

See separate folder for the following drawings:

<u>Drawing No.</u>	<u>Title</u>
50-4-1814	West Levee Sutter By-pass and North Levee Tisdale By-pass from 5.3 miles South of Long Bridge to Tisdale Weir, sheets 1, 2, and 3.
50-4-1819-2	West Levee Sutter By-pass from Long Bridge Southerly 5.3 miles, sheets 1 and 2.
50-4-2614	Sacramento River Levee Setbacks and Bank Protection Mile 102.5 to 133.8, sheets 5 and 6.
50-4-2896	Levee Enlargement and Bank Protection Left Bank Sacramento River, Mile 118.9 to 119.4, Sheet 1.
50-4-3531	Emergency levee repairs to Sutter Bypass from Wadsworth Canal to Gilsizer Slough, in 5 sheets.
50-4-3735	Bypass Levee Revetment, Sutter and Yolo Bypasses, in 8 sheets.
50-4-3754	Bank Protection, Right and Left Banks Sacramento River at Various Locations Between Colusa and Boyers Bend, in 22 sheets (Unit No. 4).
50-4-4542	Seepage ditch filled with drain material constructed on Left Bank Sutter Bypass, upstream from Oswald Road ditch is 2,800 feet long, 17.5 feet deep and 2 feet wide. Below Oswald Road ditch is 13,800 feet long, 10 feet deep and 2 feet wide. Work done in 1970.
50-4-4777	Bank Protection, Various Locations, Right and Left Banks Sacramento River Mile 84.0 to Mile 148.0, in 38 sheets.
50-4-5011	Bank Protection Right and Left Banks Sacramento River Between Mile 111.0 and 143.0, in 38 sheet.
50-4-5438	Bank Protection, Various Locations, Right and Left Banks Sacramento River Mile 111.0 to Mile 184.0, in 33 sheets.

50-4-5806

Stone Protection, Selective Clearing, and Excavation, Left Bank
Sacramento River, Site Mile 121.6.

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 1-06 of this manual

CHECK LIST NO. 2

UNIT NO. 133

DIVISIONS OF RECL. DIST. NO. 1660

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	
(d) Condition of roadways, including ramps	
(e) Evidence of seepage	
(f) Condition of farm gates and fencing	
(g) Maintenance measures taken since last inspection	
(h) Comments	

Instructions for Completing Sheet 2, Exhibit E
(To be printed on back of Sheet 2)

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate nay 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 Superintendents's semi-annual report.

CHECK LIST NO. 3

CHANNEL AND RIGHT-OF-WAY

UNIT NO. 133

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

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

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

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

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

UNIT NO. 133
CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES
R. D. NO. 1560

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

(a) Location by Station	(f) Bank	(c) Debris or other obstruc- tion to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert pav- ing	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures taken since last inspection	(h) Comments
<u>E. Levee</u>							
Sacto. R.							
2+07.8	Left						
2+07.8	Left						
2+07.8	Left						
10+45	Left						
10+45	Left						
10+45	Left						
2+36	Left						
16+76	Left						
<u>N. Levee</u>							
<u>Tisdale</u>							
<u>By-Pass</u>							
1094+80	Left						
1044+60	Left						
<u>W. Levee</u>							
<u>Sutter</u>							
<u>By-Pass</u>							
433+43	Right						
501+97	Right						
910+87	Right						

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

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

EXHIBIT F

LETTER OF ACCEPTANCE

BY STATE RECLAMATION BOARD



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

NOV 29 2016

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

Dear Ms. Gallagher:

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

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

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

Sincerely,

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

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

Enclosures

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

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

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

Standard O&M Manual San Joaquin River

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

THE RECLAMATION BOARD

1416 Ninth Street, Room 1148

Sacramento, CA 95814-5509

(916) 653-5434 FAX: (916) 653-9745

Permits: (916) 653-5726 FAX: (916) 653-5805



MAR 31 1995

Colonel John N. Reese
District Engineer
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Dear Colonel Reese:

This is in reference to your January 13, 1995 letter regarding the completed Sacramento River Bank Protection Project work for Contract 42A at River Miles 88.8, Right Bank, 89.0R (the downstream 1,450-foot portion), 111.2R, 111.7R, 116.7R, 121.6L, and 143.3L. At its March 17, 1995 meeting, The Reclamation Board formally accepted the completed flood control work from the U.S. Army Corps of Engineers and transferred the responsibility for operation and maintenance to the local agencies.

The work consisted of clearing and grubbing; excess soil excavation; placement of stone protection, embankment material, stone fill, and fish groins; and miscellaneous site work.

We concur that the above Contract 42A sites were constructed in conformance with Contract No. DACW05-94-C-0044, Specification Number 8385, and Drawing File Number 50-4-5806, as could be determined visually. Attached are copies of the letters to local agencies notifying them about the completed work and their responsibilities for operation and maintenance.

If you have any questions, please contact me at (916) 653-5434 or have your staff contact Jay Punia at (916) 327-1535 or Michael Petersen at (916) 327-1533.

Sincerely,

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

Raymond E. Barsch
General Manager

Attachments

Units 187, 130, 133, 136

January 13, 1995

Navigation and Flood Control Unit

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

Members of the Board:

You are hereby notified that the Corps of Engineers has completed first construction season work on the Sacramento River Bank Protection Project, Contract 42A, at River Miles 88.8R, 89.0R (The downstream 1450 feet portion of 89.0R), 111.2R, 111.7R, 116.7R, 121.6L, and 143.3L, in Colusa, Sutter and Yolo counties, California. The work consisted of clearing and grubbing, excess excavation, placement of stone protection, embankment material, stone fill, removal and reinstallation of wood piles, and miscellaneous site work. The work was completed on November 16, 1994, in accordance with Contract Number DACW05-94-C-0044, Specification Number 8385, and Drawing File Number 50-4-5806. Work to be completed during the second construction season, beginning in May 1995 is located at Site Miles 89.0R, 90.2R, 90.8R, 94.5R, and 101.7R.

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 the date of this letter to the State of California for operation and maintenance.

This work and any special operation and maintenance requirements will be added by amendment to the Operation and Maintenance Manual, supplement numbers 127, 130, 133, and 136

Units 127, 130, 133, 136

Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

John N. Reese
Colonel, Corps of Engineers
District Engineer

Copies Furnished:

Department of Water Resources, ATTN: D. Yeoman, 3201 S Street,
Sacramento, California 95816-7017

Department of Water Resources, ATTN: G. Qualley, 1416 Ninth
Street, Sacramento, California 95814

CDR, SPD, ATTN: CESP-D-CO-0

CDR, USACE, ATTN: DAEN-CECW-OM

cc:

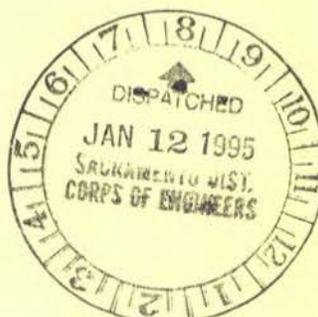
Central Valley Sec (Pearson)

PPMD Prog Mgmt Br

F&A Br

Valley Res Ofc

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HOLMBERG

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WINTON

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133/136

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**DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD**

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



DEC 21 1982

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

Dear Colonel Williams:

Reference is made to your letter of November 30, 1982, concerning the transfer to the State of California for operation and maintenance, a portion of the Sacramento River Bank Protection Project, in Unit No. 35.

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

Sites Miles 115.3, 118.4, 123.9, 130.5, 134.7, 136.7, 137.2, 137.4, and 140.9 Right Bank, Sacramento River.

Sites Miles 120.7, 126.6, 132.6, and 135.4 Left Bank, Sacramento River.

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

The Reclamation Board at its regular meeting of December 17, 1982, formally accepted from the District Engineer, for operation and maintenance, the completed work on the above-referenced sites.

Sincerely,


ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



Unit 130, 131, 133, 134



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

C
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REPLY TO
ATTENTION OF

SPKCO-0

30 November 1982

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

Gentlemen:

This is in regard to the joint inspection of 23 November 1982 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 35), to the State of California for Operation and Maintenance. The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 115.3, 118.4, 123.9, 130.5, 134.7, 136.7, 137.2, 137.4 and 140.9 and left bank at Site Miles 120.7, 126.6, 132.6 and 135.4. The sites were completed on 18 November 1982 in accordance with Contract No. DACW05-81-C-0036, Specification No. 5472 and Drawing No. 50-4-5438.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto, is transferred as of 23 November 1982 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 Nos. 130, 131, 133 and 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

HENRY LEE
Lieutenant Colonel, CE
Acting District Engineer

Copy furnished:
DWR, ATTN: M. Luttrupp
BWR, ATTN: D. Meixner

EXHIBIT F

C
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STATE OF CALIFORNIA
THE RECLAMATION BOARD

C
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August 25, 1977

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 August 23, 1977, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 29 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of August 11, 1977.

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 114.8, 119.8, 120.3, 121.5, 121.7, 122.3, 122.4, 123.3, 125.0, 125.6, 128.6, 135.0 and 137.5 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5011, Specification No. 4833, and Contract No. DACW 05-76-C-0084, insofar as could be determined visually.

Sincerely,

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

EXHIBIT F

11 August 1977

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

done

Gentlemen:

Reference is made to the joint inspection of 9 August 1977, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 29) 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 114.8, 119.8, 120.3, 121.5, 121.7, 122.3, 122.4, 123.3, 125.0, 125.6, 128.6, 135.0, and 137.5. The sites, as listed on the inclosure, were completed on 9 August 1977 in accordance with Specification No. 4833, Contract No. DACW05-76-G-0084, Drawing No. 50-4-5011.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 10 August 1977 to the State of California for operation and maintenance.

ye
ROMPALA/sip
RI *PH*
M. [unclear]

This ^{part} portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 128, 133, and 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

AS
A. SMITH

Sincerely yours,

HESS *for*

DONALD M. O'SHEI
Colonel, CE
District Engineer

PROBASSO

X 1 Incl
As stated

O'SHEI
[Signature]

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

X OCE
X SPD

cc:

X Flood Control
X Valley Res Ofc
X Engr Div (Lev & Chan)
(Prog Dev Br)
X F&A (Kalal)

*Units 128,
133, 134*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT - ^{OR} PROTION OF UNIT 29
 SACRAMENTO RIVER LEFT BANK

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
114.8	18+50 to 30+40	1190
119.8	34+60 to 42+40	780
120.3	6+40 to 11+00	460
121.5	90+00 to 96+20	620
*121.7	73+20 to 83+50	1030
122.3	43+50 to 49+50	600
122.4	36+90 to 38+80	190
123.3	45+25 to 56+25	1100
125.0	34+00 to 40+40	640
125.6	5+00 to 8+50	350
128.6	48+60 to 60+10	1150
135.0	142+30 to 150+90	860
137.5	13+60 to 16+60	<u>300</u>

* 50' Deleted at Downstream End of Site

10 AUG 77
 Units 128, 133, 134

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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Y

July 9, 1974

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

Refer to: 4130.20.306

Dear Sir:

The Reclamation Board at its regular meeting of June 28, 1974, formally accepted a portion of the completed flood control work on Unit No. 26 of the Sacramento River Bank Protection Project from the District Engineer for operation and maintenance. The flood control work was transferred to The Reclamation Board by your letter of June 20, 1974.

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 114.4, 118.4, 120.1, 134.7, 136.1, 142.7, 145.0, and 147.3 Left Bank, Sacramento River.

The flood control work was constructed in a workmanlike maner and in conformance with Drawing No. 50-4-4777, Specification No. 4251, and Contract No. DACW05-73-C-0059, insofar as could be determined visually.

Sincerely yours,

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

SPKCO-0



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

Gentlemen:

Reference is made to the joint inspection of 3 June 1974, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 26), to the State of California for operation and maintenance. This portion of the flood control work consists of levee and bank sloping, and placement of stone bank protection on the Sacramento River left bank at Site Miles 114.4, 118.4, 120.1, 134.7, 136.1, 142.7, 145.0 and 147.3. The sites, as listed on the enclosure, were completed on 3 June 1974 in accordance with Specification No. 4251, Contract No. DACW05-73-C-0059, Drawing No. 50-4-4777.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 20 June 1974 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 128, 133, 134 and 136 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

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

*Units 128,
133, 134 &
136*

[Signature]
ROMPALA/d
Redac

[Signature]
COLEMAN
[Signature]
HENSON

[Signature]
McKINSKY

[Signature]
POTAMOS

[Signature]
ROCKWELL

y

Valley Res Ofc
F & A (Jones)

Engr (Lev & Chan)
Engr (Prog Dev)

cc: Incl
As stated
 Copy furnished:
DWR, ATTN: JOHN WRIGHT
 OCE
 SPD

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SUMMARY OF PORTION OF SACRAMENTO RIVER
BANK PROTECTION UNIT NO. 26
SACRAMENTO RIVER LEFT BANK

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
114.4	30+00 to 36+15	615
118.4	21+10 to 23+50	240
120.1	20+00 to 24+00	400
134.7	158+40 to 161+00	260
136.1	86+15 to 99+70	1355
142.7	10+00 to 13+65	365
145.0	3+70 to 11+00	730
147.3	36+00 to 44+30	830
		<u>4795</u>

Units 128, 133,
134 + 136

Incl

THE RECLAMATION BOARD

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



STANLEY W. KRONICK, *President*
J. J. MADIGAN, *Vice President*
WALLACE McCORMACK, *Secretary*
GEORGE W. NICKEL, JR.
HAROLD J. O'BANION
H. TERRILL SARTAIN
DONALD L. WEILER
COL. A. E. McCOLLAM, *General Manager*

FEB 20 1967

Refer to: 4130.60.301

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

Dear Sir:

Reference is made to your letter of October 26, 1965 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 4, Sites Mile 142.65, 118.70, 112.30 (3 sites), right bank and 142.95, 130.22, 128.80, 126.80, 125.15, 117.95, 113.30, left bank, in accordance with Specification No. 3024.

The Reclamation Board, at its meeting of February 16, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A. E. McCollam

A. E. McCOLLAM
General Manager

JHMacC:pa

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

*Units 128, 130, 131, 133,
134, 136*

*COPIES TO ENQ & VACIFY.
7 MAR 67 JK.*

*addition
July 66*

C
O
P
Y

SPIKCO-F

26 October 1965

C
O
P
Y

The Reclamation Board
State of California
1416 Ninth Street, Room 1335
Sacramento, California

Gentlemen:

Reference is made to the joint inspection made on 22 & 23 September 1965, of flood control work pertaining to the Sacramento River Bank Protection Project for the purpose of transferring this work, upon completion, to the State of California for operation and maintenance.

The flood control work, designated as Contract No. 4, consisting of levee enlargement, levee setback, shaping and placement of bank protection at 11 locations from Colusa to Boyers Bend right and left banks as listed on the attached inclosure, was completed on 20 October 1965, in accordance with Specification No. 3024, Contract No. DA-04-167-CIVENG-65-15 and Drawing No. 50-4-3754.

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

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 128, 130, 131, 133, 134 and 136, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT E. MATHE
Colonel, CE
District Engineer

EXHIBIT F

THE RECLAMATION BOARD
STATE OF CALIFORNIA

9 November 1964

Refer to: 7001.55.601
4130.55.601

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

Dear Sir:

Reference is made to your letter of October 21, 1964, concerning transfer to the State of California of bank protection and stone revetment on the west levee of Sutter Bypass in the vicinity of Oswald Bridge, in accordance with Specification No. 2917.

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

Sincerely yours,

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

Open

SPKCO-F

21 OCT 1964

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

Gentlemen:

Reference is made to the joint inspection trip of 14 October 1964, on the Sutter Bypass Levee Revetment work in Area No. 2, for the purpose of transferring it upon completion to the State of California for operation and maintenance.

The flood control work consisted of placement of stone revetment on the waterside slope of the west levee of Sutter Bypass, beginning from the Oswald Bridge and running downstream 3.13 miles to the north bank of Tisdale Bypass.

This work was performed under the general authority of the Sacramento River Major and Minor Tributaries Flood Control Project, which was authorized by the Flood Control Act of 22 December 1944 (Public Law 534, 78th Congress, 2nd Session).

The work was completed on 15 October 1964, in accordance with Specification No. 2917, Contract No. IA-04-167-CIVENG-64-75 and Drawing No. 50-04-3735.

The flood control work described above now meets the requirements of the Sacramento River Major and Minor Tributaries Flood Control Project and is hereby transferred to the State of California for operation and maintenance.

This site will be added by amendment to the O&M Manual, Supplement No. 133, Sacramento River Flood Control Project, and furnished to your office at a later date.

Sincerely yours,

ROBERT E. MATHE
Colonel, CE
District Engineer

Copy furnished:
Dept Water Resources

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

COLEMAN/3

TROMPSON

HART

MATHE

Unit 7133

OPERATIONS BRANCH
FLOOD CONTROL SECTION

November 27, 1963

Navigation and Flood Control Unit

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 inspection of November 14, 1963 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 98A), to the State of California for Operation and Maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 94.0, 96.6, 127.5 and 128.5 and right bank at Site Miles 80.6, 99.2, and 154.6. These sites were completed during the past construction season in accordance with Contract Number DACW03-64-C-0112, Specification Number 7033 and Drawing Number 30-4-5712.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (Pl. 86-649, July 14, 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of November 20, 1963 to the State of California for operation and maintenance.

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

Sincerely,

ROMPALA/jb

KELLY

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

HELM

FAST

Copy Furnished:

SCHOLL

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

VERES
CAMPBELL
PAHL
FILE

Control Unit
Div (Civ Des Sec D (Pahl)
F&A Div
F&A Bt
Valley Res Ofc
C-O Div

REGISTERED

RETURN RECEIPT REQUESTED

WBH:pnp

16 FEB 1959

SPKKO-P

*RD 1660 for West Side
State Water Resour East Side*

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

16 Feb '59

Gentlemen:

Reference is made to the emergency repair program on the Sacramento River Flood Control Project formulated as a result of requests from local interests, joint inspections and investigations participated in by State, local and Corps of Engineers representatives.

Emergency repairs have been completed under the general authority of Public Law 99, 84th Congress, 1st Session, on both levees of the Sutter Bypass from Hadsworth Canal to Gilsizer Slough.

The emergency work consisted of the construction of relief wells and seepage drains and was completed 14 November 1958 in accordance with Specification No. 2463, Contract No. DA-04-167-CIVENG-59-2 and Drawing No. 50-1-3531.

The above work as completed is hereby transferred to the State of California for operation and maintenance as an appurtenance of the levee reach in this area transferred to the State on 8 December 1951.

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

Sincerely yours,

A. E. McCOLLAM
Colonel, CE
District Engineer

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

O.C.E.
SoFacDivnEngr

cc: Opers Br ✓

Units 133, 135

*W Levee E Levee
1160 State*

*See Units 71 & 76
Letter # 8*

REGISTERED

RETURN RECEIPT REQUESTED

OPERATIONS BRANCH

8/9/53

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

EARL WARREN
GOVERNOR

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

THE RECLAMATION BOARD

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

March 9, 1953

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

Dear Sir:

Reference your letters, file No. SPKKO-P 824.3 (Sac. R.F.C.P.) dated 3 Dec 51, 8 Dec 51, 4 Feb 53 and 13 Feb 53, wherein the following levee units were transferred to the State of California:

- 3 Dec 51 The westerly levee of the Sacramento River.
Section No. 8 1. From Princeton (Mile 163.8) to Packers Warehouse (Mile 165.5). *137, 139*
- Section No. 7* 2. From Mile 167.5 to opposite Packers Lake (Mile 168.0). *139*
- 8 Dec 51 The easterly levee of the Sacramento River.
Section No. 144 1. From Mile 168.5 to Mile 168.9 (at Butte City). *139*
- 4 Feb 53 The southerly levee of Lindsey Slough, from the westerly levee of the Yolo Bypass to the back levee of Egbert tract, (a distance of approximately 4 miles). *106*
- Section No. 342*
- 13 Feb 53 The easterly levee of the Sacramento River from River mile 118.9 (north end of Tisdale Weir), to Mile 120.75, near Grimes. *133*
- Section No. 364*

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

Yours very truly
THE RECLAMATION BOARD


D. M. CARR

3007

DMC:emw
cc: State Engineer

7-8-144-342 and 364

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

20

Transfer of
Unit No. 123-A

364

ROBERT K. ...
Requested

SRHO-F 24.3 (Sacto. River F.C.P.)

13 FEB 1953

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

Gentlemen:

Reference is made to the District Engineer's letter dated 1 December 1952, wherein it was suggested that a joint inspection be made for the purpose of transferring to the jurisdiction of the State of California, when completed, two units of the Sacramento River Flood Control Project. Reference is also made to the joint inspection of these two units which was made on 9 December 1952.

In accordance with the above, you are hereby advised that Unit 1 described in the letter referred to above was completed on 13 February 1953. The completed work was performed under specification No. 1588, drawings No. 30-4-2896 and 30-4-2742. Said work included levee enlargement, bank protection and levee surfacing for patrol road purposes along the left bank of the Sacramento River from river mile 118.9, at the northerly end of Thomas Weir, to river mile 120.75, near Grimes, California.

The levee unit 1 described above forms an integral part of the Sacramento River Flood Control Project, and meets with the requirements of the project. Therefore, said levee unit, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for operation and maintenance.

Unit 2 referred to in said letter of 1 December 1952, consisting of levee enlargement along the right bank of the Sacramento River at Colusa Warehouse, river mile 144.2, was transferred to the State of California by letter dated 15 January 1953.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance

Service, Section

A3

Unit 133

A2
Unit No. 123-A

364

SPR-824.3 (Sacto. River F.C.P.)

The Reclamation Board

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. 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 to you upon completion.

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

1 Incl. (In duplicate)

1. Flood Control Regulations

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

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

cc: Office, C. of Eng.
So. Pac. Div. Eng.
Eng. Div.
Sacto. Project Eng
Service Sect.
C. de Arista
Journal
Suspense

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

Accepted items

December 18, 1951

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

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

Copy to USED.

①

Accepted
Items

No. Date of Letter Levee Location Remarks

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

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

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

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

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

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

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

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

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

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

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

Accepted
Items

4

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

21
3

Accepted
Items

5

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

21

4

Accepted
Items

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

12 8 Dec. 1951

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

a. Junction Miner and Sutter Sloughs westerly 5000 feet.

b. From State Highway Bridge West. 3035 ft.

c. Spec. 1473, Sta. 53+00 to 64+00 about one mi. No. of Ryde Road. Mile 29.4 to 29.6

d. Spec. 1473, Sta. 0+00 to 12+00 being 600 ft. each side of Ryde Road. Mile 30.4 to 30.6

e. Ryer Island cut-off levee beginning at east bank of Cache Slough and extending upstream 3,300 feet at junction of Cache and Miner Sloughs.

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

Covered by letter dated 16 Nov. 1951

321 → (38) (19A)

303 Covered by letter dated

(53A)

304 17 Nov. 1951

(54A)

(28)
(50)

*No waterway banks contiguous to these levees.

REGISTERED MAIL
Return Receipt
Requested

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

8 DEC 1951

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

Gentlemen:

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

The levee reaches in question are located as follows:

a. Westerly levee of the Sacramento River.

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

b. Easterly levee of the Sacramento River.

- 58 (1) Mile 153.3 (Terrill's Landing) to Mile 152.7 (South Line Begg's Ranch). 136

Letter No. 8

Items 51 to 76

824.3(SAC. R. F.C.P.)/SRK

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

- 59 (2) Mile 149.9 to Mile 149.7 (Graham's Ranch).
- 60 (3) Mile 149.4 (Farnsworth Pump) to Mile 149.0 (Sailor Bend).
- 61 (4) At Colusa Weir.
- 62 (5) Mile 143.5 (Arnold's) to Mile 140.2.
- 63 (6) Mile 139.8 to Mile 138.2 (Butte Slough Outfall Gates).
- 64 (7) Mile 138.2 (Butte Slough Outfall Gates) to Mile 137.9 (Marty's Pump).
- 65 (8) Mile 136.9 (Opposite Steidelmayer's Pump) to Mile 134.0 (Meridian Bridge).
- 66 (9) Mile 134.0 (Meridian Bridge) to Mile 133.8.
- 67 (10) Mile 133.2 to 132.3.
- 68 (11) Mile 131.8 to Mile 126.9.
- 69 (12) Mile 125.8 to Mile 123.1.
- 70 (13) Mile 122.8 to Mile 122.0.

c. Westerly levee of the Sutter Bypass.

- 71 (1) Butte Slough Outfall Gates to Tisdale Bypass. 133
- 72 (2) Tisdale Bypass to a point 5.8 miles northerly from Sacramento River. 133
- 73 (3) From a point 5.8 miles northerly from Sacramento River to Sacramento River. 133

74 d. Northerly levee of Tisdale Bypass. 133

75 e. Southerly levee of Tisdale Bypass. 129

76 f. Easterly levee of the Sutter Bypass from high ground near Longbridge to Feather River. 135

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

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

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

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

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

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy Furnished:

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

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

Dist. Data	OHH 12-7-51
Exec. O. Chief	2
Ad. Asst.	B
Chief Tech. Asst.	
Manag. Office Sec.	
Comm.	
Spec. A.	
A. E.	
Rec.	
Plan.	
Legal	
Supply	

Letter No. 8

Items 51 to 76

Design
Bridale

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 Tisdale 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

824.3(Sacramento River)PCKB

23 June 1947

SUBJECT: Maintenance of East Levee, Sacramento River, Meridian Bridge to Tisdale Weir

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

Gentlemen:

Enlargement has been completed of the East Levee, Sacramento River, between Meridian Bridge and Tisdale Weir. 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. 50-4-2287 in seven sheets, entitled "Proposed Levee Enlargement, East Levee, Sacramento River, Meridian Bridge to Tisdale Weir."

120-
1127

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 obligation established by these regulations.

For the records of this office, acknowledgment 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. 50-4-2287
(in 7 sheets)
Flood Control Regulations

Manual No. 10

1331
134

Copy furnished: State Engineer
(with inclosures) cc: CdeA(w/d.)

C O P Y

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

July 23, 1947

District Engineer
Sacramento District
Wright Building
1209 - 8th Street
Sacramento, California

Dear Sir:

Reference is made to your letter of June 23, 1947, file No. 824.3 (Sacramento River) PSKKB, transferring to the State of California for maintenance a section of the east levee of the Sacramento River from Meridian Bridge to Tisdale Weir.

The Reclamation Board at its meeting on July 2, 1947, accepted the levee for maintenance, and has subsequently turned it over to Reclamation Districts 70 and 1660 for maintenance.

Copy of the Board's resolution is enclosed with our letter of today, relating to your file No. 824.3 (Sacramento River) PSKKB; east levee, Sacramento River, Isleton Bridge to Walnut Grove.

Yours very truly,

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

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

EXHIBIT F
Sheet 1 of 4

C O P Y

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

April 2, 1952

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

Dear Sir:

1. Reference is made to your letter of 8 December 1951, file SPKKA 824.3 (Sac.Riv. F.C.P.), transferring to The Reclamation Board for operation and maintenance of levees and their contiguous waterway banks as follows:

a. --- - -----

b. -----

c. Westerly levee of the Sutter By-pass.

1. Butte Slough Outfall Gates to Tisdale By-pass.

2. and 3. -----

d. North levee of Tisdale By-pass.

6. There are no contiguous waterway banks other than the adjacent by-pass areas under Items "c", "d", "e" and "f". On December 18, 1951, The Reclamation Board formally accepted the levees covered by these items together with their contiguous by-pass areas subject to the provision that the portion of Item "c-1" now having waterward slopes of three horizontal to one vertical would be rectified by Federal construction. All other levees of the Sutter By-pass are now constructed to waterward slopes of four horizontal to one vertical. The Flood Control Act of December 22, 1944, calls for construction of waterward slopes of four horizontal to one vertical on the Tisdale By-pass levees. The existing section of these levees is ample.

Yours very truly

THE RECLAMATION BOARD

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

Chief Engineer and General Manager

NOTE: Only items pertaining to Operation and Maintenance Manual No. 133 are included in the above copy.

C O P Y

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

July 23, 1947

District Engineer
Sacramento District
Wright Building
1209 - 8th Street
Sacramento, California

Dear Sir:

Reference your letters, file No. SPKKO-P 824.3 (Sac.R.F.C.P.) dated 3 Dec 51, 8 Dec 51, 4 Feb 53 and 13 Feb 53, wherein the following levee units were transferred to the State of California:

13 Feb 53 The easterly levee of the Sacramento River from River mile 118.9 (north end of Tisdale Weir), to Mile 120.75, near Grimes.

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

Yours very truly,

THE RECLAMATION BOARD

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

NOTE: Only item pertaining to Operation and Maintenance Manual 133 is included in above copy.

EXHIBIT F
Sheet 4 of 4

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM.

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

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

Dear Sir:

The semi-annual report for the period (1 May 19__ to 31 October 19__) (1 November 19__ to 30 April 19__) Sacramento River Flood Control Project, Unit No. 133, east levee of Sacramento River, north levee of Tisdale By-pass and west levee of Sutter By-pass of the Sacramento River Flood Control Project, is as follows:

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

(Superintendent's summary of conditions)

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

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

b. During this report period, major high water periods (water level at 51.0 at R.D. Pump No. 70, 50.0 at Long Bridge, 43.0 on R.D. No. 1660 drainage pump and 48.0 at Tisdale Weir gages) 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