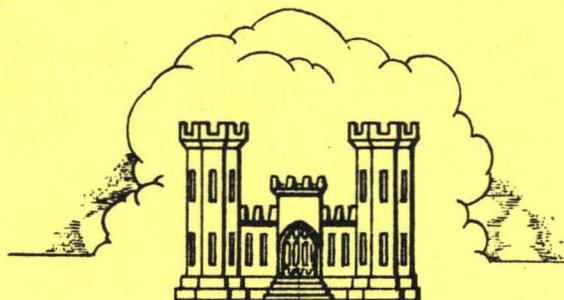


SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL

LOWER SAN JOAQUIN RIVER AND  
TRIBUTARIES PROJECT, CALIFORNIA

UNIT NO. II

WEST LEVEE OF SAN JOAQUIN RIVER  
FROM DURHAM BRIDGE TO PARADISE DAM  
WITHIN R. D. NO. 2085 AND R. D. NO. 2095



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

*Incl 1*

Corps of Engineers  
US Army

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SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SAN JOAQUIN RIVER AND TRIBUTARIES PROJECT

UNIT NO. 11  
WEST LEVEE OF SAN JOAQUIN RIVER  
FROM DURHAM BRIDGE TO PARADISE DAM  
WITHIN R.D. NO. 2085 AND R.D. NO. 2095

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Sacramento District  
Corps of Engineers  
US Army  
1968

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

UNIT NO. 11

WEST LEVEE OF SAN JOAQUIN RIVER  
FROM DURHAM BRIDGE TO PARADISE DAM  
WITHIN R.D. NO. 2085 AND R.D. NO. 2095

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
1-04 i.	Add contract no. DACW05-68-C-0086	Jan 1970
Exhibit B	Add drawing no. 7-4-1710	Jan 1970
Exhibit F	Add copy of letter of acceptance dated 20 Jan 1969	Jan 1970
Exhibit F	Add copy of letter of transfer dated 3 Dec 1958	25 May 2011
Exhibit F	Add copy of letter of transfer dated 30 Oct 1959	25 May 2011
1-04	Add subparagraph j	25 May 2011
Exhibit F	Add copy of letter of transfer dated 7 Dec 1959	25 May 2011
Exhibit F	Add copy of letter of transfer dated 27 Nov 1961	25 May 2011
Exhibit F	Add copy of letter of transfer dated 12 Sep 1967	25 May 2011
Exhibit F	Add copy of letter of transfer dated 27 Dec 1967	25 May 2011
1-04	Add subparagraph k	25 May 2011
Exhibit B	Add drawing no. SJ-4-112	25 May 2011
Exhibit F	Add copy of letter of transfer dated 14 Feb 2001	25 May 2011

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<u>Paragraph</u>	<u>Subject</u>	<u>Page</u>
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1-03	Protection Provided	1
1-04	Construction Data and Contractor	1
1-05	Flood Flows	2
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EXHIBITS

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

SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SAN JOAQUIN RIVER AND TRIBUTARIES PROJECT

UNIT NO. 11

WEST LEVEE OF SAN JOAQUIN RIVER  
FROM DURHAM BRIDGE TO PARADISE DAM  
WITHIN R.D. NO. 2085 AND R.D. NO. 2095

SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the San Joaquin River and Tributaries Project levee and channel that is located along the left bank of the San Joaquin River between the Durham Bridge and Paradise Dam. The area lies about 20 miles south of Stockton and 7 miles east from the town of Tracy, California. Location by levee mileage along the left bank of the San Joaquin River is from mile 0.00 at Paradise Dam to mile 3.38 at Banta-Carbona Intake within Unit No. 2 of R.D. No. 2095 and from mile 0.00 at Banta-Carbona Intake to mile 5.20 at the Durham Ferry Road within Unit No. 1 of R.D. No. 2085. The area lies within the above Reclamation Districts in the County of San Joaquin, California and in the general vicinity as shown on the Location Map, EXHIBIT A-1.

1-02. Project Works. The project works covered by this manual is a part of the Lower San Joaquin River and Tributaries Project as authorized by the Flood Control Act of 22 December 1944, Public Law 534, Seventy-Eighth Congress, Second Session, Section 10, and consists of the left bank levee and channel of the San Joaquin River from the Durham Bridge to Paradise Dam, a total distance of about 8.58 miles.

1-03. Protection Provided. Levees along the San Joaquin River, as described in this unit, provide direct protection to adjacent agricultural land within Reclamation Districts No. 2085 and 2095. Along the San Joaquin River left bank levee the grade of the adopted flood plane varies from elevation 34.2 at the Durham Bridge to elevation 25.0 at the Paradise Dam. All elevations are referred to mean sea level datum (1929 adjustment). Levee grade within this unit provides for a freeboard of at least 3 feet above the adopted flood plane profile. Within this unit the project design flood for the San Joaquin River is 52,000 cubic feet per second.

1-04. Construction Data and Contractor. Work required by the Corps of Engineers to bring levees of this unit to project standards was accomplished under the following contracts:

- a. Bank protection (Site “44-1”) on the left bank of the San Joaquin River near the Banta-Carbona Intake was constructed under Job Order No. 982 and completed on 31 December 1949. Drawing No. 7-4-1201.
- b. Levee setback, bank paving and timber mattress 0.7 mile above Paradise Dam on the left bank at mile 62.9 was constructed under Job Order No. 988 and completed on 30 June 1945. Drawing No. 7-4-1202.
- c. Levee setback, bank paving and timber mattress on the left bank at mile 62.3 was constructed under Job Order No. 989 and completed on 30 June 1945. Drawing No. 7-4-1204.
- d. Levee setback on the left bank of the San Joaquin River at miles 73.6 and 68.3 was constructed under Contract No. W-04-167-eng-1126 by T. E. Connelly, Inc. and completed on 4 April 1946. Specification No. 1208, Drawing No. 7-4-1246.
- e. A bow levee was constructed on the left bank of the San Joaquin River near the Banta-Carbona Intake under Contract No. DA-04-167-eng-807 during the period from 14 May 1952 to 28 May 1952. Specification No. 1659, Drawing No. 7-4-1396.
- f. Levee construction and stone protection on the left bank of the San Joaquin River from Banta-Carbona Intake to Head of Old River was accomplished under Contract No. DA-04-167-CIVENG-58-63 by A. Teichert & Son, Inc. during the period from 6 August 1958 to 23 September 1959. Specification No. 2402, Drawing No. 7-4-1519.
- g. Levee construction and stone protection from Banta-Carbona Intake to Old River was accomplished under Contract No. DA-04-167-CIVENG-61-72 by A. Teichert & Son, Inc. during the period from 8 May 1961 to 17 November 1961. Specification No. 2656, Drawing No. 7-4-1554.
- h. Levee construction right and left banks San Joaquin River between Stanislaus River and North Line of R.D. 2075 was accomplished under Contract No. DA-04-167-CIVENG-66-103 by Elmer G. Wendt, Inc. during the period from 28 March 1966 to 10 March 1968. Specification No. 3042, Drawing No. 7-4-1685.
- i. Completion phase work on the right and left banks of the San Joaquin River and Stanislaus River was accomplished under Contract No. DACW05-68-C-0086 by Elmer G. Wendt, Inc., and completed on 14 November 1968. Specification No. 3455, Drawing No. 7-4-1710.
- j. Bank protection and levee construction along the right and left banks of the San Joaquin River at priority sites was accomplished under Contract No. DA-04-167-CIVENG-59-131 by A. Teichert & Son, Inc., during the period from 1 June 1959 to 20 November 1959. Specification No. 2565, Drawing No. 7-4-1588.
- k. Emergency levee repairs on the west levee of the San Joaquin River in Unit 1, from Levee Mile 0.00 to 5.20 and in Unit 2 from Levee Mile 0.00 to 0.69, all in Reclamation District 2085, was completed on 29 October 1997 by Ford Construction Company under Contract No. DACW05-97-C-0130. Specification No. 9893E, Drawing No. SJ-4-112.

1-06. Assurances Provided by Local Interests. Assurance of cooperation by local interests is provided by State Legislation as contained in.....(continued on page 3)

Chapters 1 and 2, Part 4, Division 5 of the State Water Code (see paragraph 2-02a of the Standard Manual).

1-07. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining portions of this unit was officially accepted by the State Reclamation Board by letters dated 29 December 1958, 10 November 1959, 15 January 1962, and 9 January 1968 as shown on the attached copies of letters, EXHIBIT F.

1-08. Inspection Procedure. Since the enactment by State Legislation of Chapter 1528, Statutes of 1947, the Department of Water Resources, State of California, has made semi-annual inspections of all levees of authorized flood control projects in the Sacramento-San Joaquin Drainage Basin pursuant to the Federal Regulations of 16 August 1944 (Title 33), and reports its findings to the local agency, the State Reclamation Board and the Sacramento District, Corps of Engineers, US Army. This activity, initiated pursuant to section 208.10(a) of the Federal Regulations, has in effect provided for transfer from the local agencies to the State Department of Water Resources the obligation of compliance with Sections 8371, 8372, and 8373 of the Water Code of the State of California. These sections of the Code require the local responsible agencies to submit a report to the State Department of Water Resources on or before 1 June of each year on the condition of the levees within their jurisdiction. Supervisory powers and duties of the Department are applicable to all works of the Lower San Joaquin River and Tributaries Flood Control Project maintained and operated by the local agencies without regard to status of completion, or expenditure of Federal funds on the construction of such works.

The following procedure is used in inspecting the levees of the responsible maintaining agency:

The personnel of the State Department of Water Resources make a detailed inspection in the spring and fall of each year and make a report on any required maintenance. The inspection objectives are to determine if the following items, which are a condensation of Federal Regulations, are being adhered to:

- a. That all brush, trees and wild growth other than sod are removed from the levee crown and slopes.
- b. That all weeds, grass and debris on the levee have been burned during the appropriate season, where not dangerous or impractical.
- c. That all grass and weeds on the levee have been mowed where removal by burning is dangerous or impracticable. This applies only on

peat levees or where burning would constitute a hazard to improvements.

d. That all burrowing animals have been exterminated.

e. That all caves, sloughs, burrows, holes, slips or other damaged portions of the levee have been repaired.

f. That all irrigation and drainage structures through the levee are in good working condition.

g. That no revetment work or riprap have been displaced, washed out or removed.

h. That the crown of the levee is well shaped and maintained and that unauthorized vehicular travel is restricted.

i. That stock grazing on the levee is restricted to conditions and seasons when the levee would not be seriously scarred or otherwise damaged thereby.

j. That encroachments are not being erected on the levee which would hinder travel by authorized patrol vehicles.

k. Prevent the erection of structures on, additions to, or alterations of, the levee unless authorized by permit from the State Reclamation Board.

Following this detailed inspection a joint field inspection is made with representatives of the responsible maintaining agency and the State Department of Water Resources to review and discuss the inspection report.

Upon completion of the fall inspection, the State Department of Water Resources publishes an annual report entitled, "Status of Project Levee Maintenance" which indicates the degree of proficiency attained by each obligated local agency in providing required maintenance.

SECTION II  
FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees.

a. The levees described in this manual lie along the left bank of the San Joaquin River from Durham Bridge to the Paradise Dam, a total distance of about 8.58 miles. The levee has been reconstructed to project standards with a minimum crown width of 12 feet. The necessary drainage structures, road approaches, bank protection, and appurtenances were also included in the work. For more complete detail in construction of the above-mentioned levees, refer to the "As Constructed" drawings of EXHIBIT B.

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

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

2-02. Drainage and Irrigation Structures. Drainage and irrigation structures which extend through the levees are listed as follows:

Levee Mile	Size of Pipe	Other Description	Feet Below Crown
<u>R.D. No. 2085 - Unit No. 1 - Left Bank Levee San Joaquin River</u>			
0.47	14"	Pump W.S. - Riser unit W.S.	4.5
1.28	12"	Pump L.S. - Riser unit W.S.	4.0
1.35	10"	Pump L.S. - Riser unit W.S.	4.5
1.97	8"	Pump W.S.	2.0
2.74	14"	Pump W.S.	4.0
3.34	10"	Pump L.S. - Riser unit W.S.	4.0
3.71	30"	Riser unit W.S. - Flapgate W.S.	12.0
3.95	6"	Pump W.S. - Riser unit L.S.	4.0
5.12	30"	Flapgate W.S.	10.0

R.D. No. 2095 - Unit No. 2 - Left Bank Levee San Joaquin River

0.79	24"	Pump on pile structure W.S.	6.5
0.79	18"	Pump on pile structure W.S.	6.5
0.81	18"	Pump on pile structure W.S.	7.5
1.51	14"	Pump L.S. - Flapgate W.S.	3.5
2.12	16"	Slant pump W.S.	2.0
2.41	8"	Pump L.S.	3.0
2.70	10"	Abandoned pipe	2.0

Note on abbreviations:

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

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

- (1) Maintenance - paragraph 5-02 of the Standard Manual.
- (2) Suggested 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 channel and floodway of the San Joaquin River for this unit lies adjacent to the levees as described in paragraph 1-02. The project design capacities of said channel are listed in paragraph 1-03 of this manual.

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) Suggested 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 local agency responsible for maintenance to keep in contact with the State Department of Water Resources' Flood Operation Center during all high water periods, and maintain a patrol of the project works in their area during such periods. (When stages are at or in excess of 30.5 on the Vernalis gage.)

The Flood Operation Center is responsible for Data Collection and issuance of a joint river forecast with the US Weather Bureau and coordinates with the Sacramento District Engineer and other agencies to keep apprised of the current situation in accordance with terms of the Memorandum of Understanding dated 1 November 1956, between the Division Engineer, US Army Engineer Division, South Pacific and the Director, Department of Water Resources, State of California for cooperative action during flood emergencies.

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) Utility Relocation. Because of the nature of the construction of structures by local interests, records of utility relocations are not available.
- (2) Hydrologic Facilities. Hydrologic facilities for this unit consists of the existing San Joaquin River Stream Gaging Station near Vernalis located on the left bank of the river 80 feet upstream from the Durham Ferry road bridge. This station is equipped with a staff gage and a continuous water stage recorder with an on-call type radio system for reporting stages to the Federal-State Flood Control Center in Sacramento.

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) Suggested Check Lists - paragraph 7-03 of the Standard Manual.
- (3) Operation - paragraph 7-04 of the Standard Manual.

### 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 local agency responsible for maintenance will contact a representative of the Department of Water Resources, State of California, who coordinates maintenance of project works of the Lower San Joaquin River and Tributaries Flood Control Project. The State representative will give assistance or advice, or will determine appropriate action to be taken.

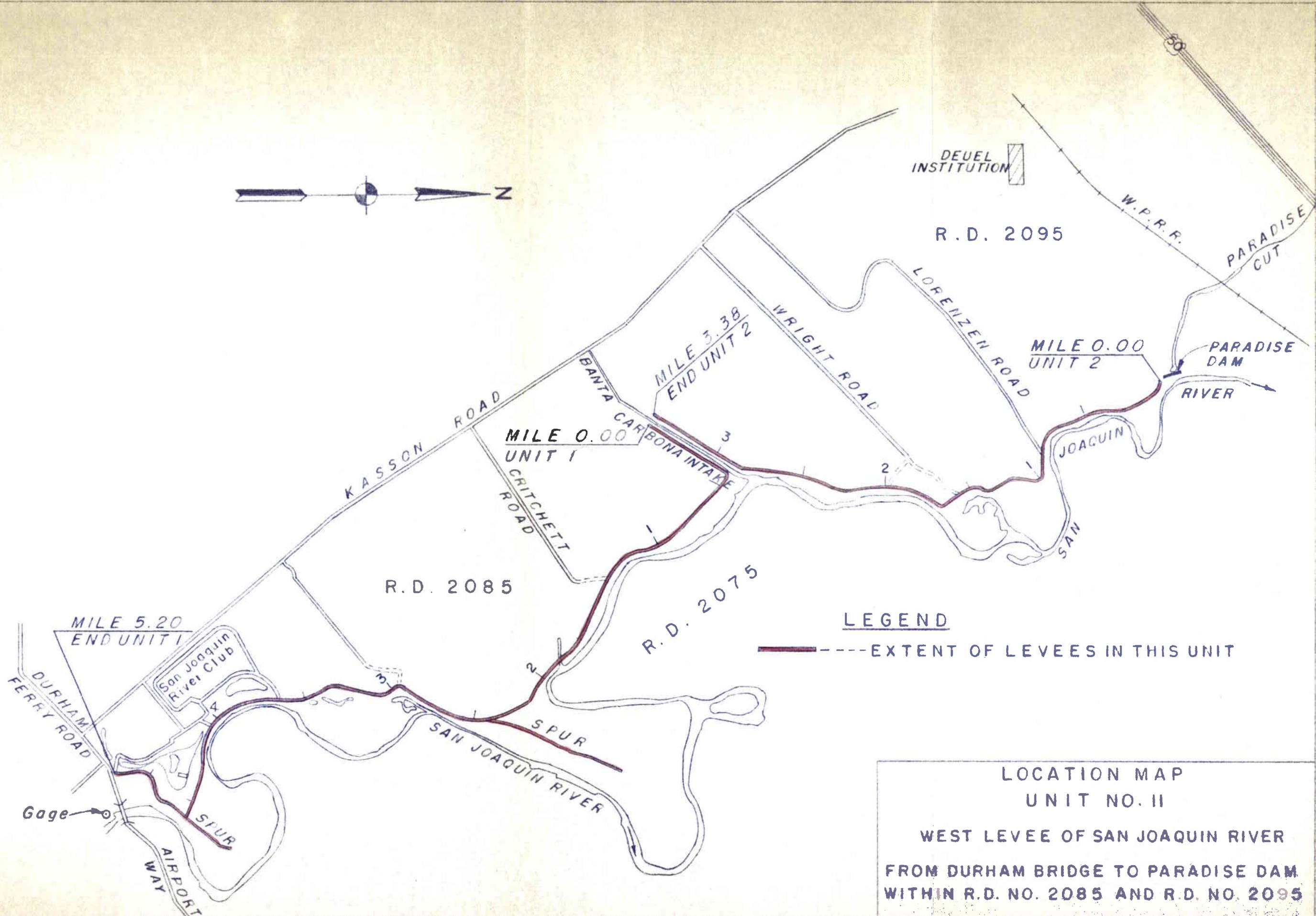
3-02. Applicable methods of combating floods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Standard Operation and Maintenance Manual where the subject is fully covered.

EXHIBIT A

FEDERAL FLOOD CONTROL REGULATIONS

(SEE STANDARD MANUAL)

EXHIBIT A



**LEGEND**

----- EXTENT OF LEVEES IN THIS UNIT

LOCATION MAP  
UNIT NO. II  
WEST LEVEE OF SAN JOAQUIN RIVER  
FROM DURHAM BRIDGE TO PARADISE DAM  
WITHIN R.D. NO. 2085 AND R.D. NO. 2095

EXHIBIT B

“AS CONSTRUCTED”  
DRAWINGS

<u>File No.</u>	<u>Title</u>
7-4-1210	Site “44-1” Bank Protection and Timber Mattress on Left Bank near Banta-Carbona Intake, in 1 sheet.
7-4-1202	Levee Setback, Paving and Timber Mattress, 0.7 miles above Paradise Dam on Left Bank at Mile 62.9, in 1 sheet.
7-4-1204	Levee Setback on Left Bank, Bank Sloping, Paving and Timber Mattress at Mile 62.3, in 1 sheet.
7-4-1246	Levee Setback on Left Bank at Mile 73.6 and 68.3, in 6 sheets.
7-4-1396	Bow Levee on Left Bank near Banta-Carbona Intake, in 1 sheet.
7-4-1519	Levee Construction and Stone Protection from Banta-Carbona Intake to Old River, in 20 sheets.
7-4-1554	Levee Construction and Stone Protection from Banta-Carbona Intake to Old River, in 20 sheets.
7-4-1685	Levee Construction – Right and Left Banks San Joaquin River Between Stanislaus River and North Line of R.D. 2075, in 18 sheets, 30 to 41 incl., 45, 46, 52, 53, 62 and 63.
7-4-1710	Completion Phase, Right and Left Banks San Joaquin River and Stanislaus River.
SJ-4-112	Lower San Joaquin River RD 2085, SJ9 Phase III Levee Restoration San Joaquin County, California, in 3 sheets.

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(SEE STANDARD MANUAL)

EXHIBIT C  
Unattached

EXHIBIT D

SUGGESTED CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(SEE STANDARD MANUAL)

EXHIBIT D

EXHIBIT E

SUGGESTED CHECK LISTS OF LEVEES

CHANNEL AND STRUCTURES

SUGGESTED CHECK LIST NO. 2  
UNIT NO. 11  
SAN JOAQUIN RIVER

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

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

Instruction 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 gullyng of the section has occurred.
- Item (c) If sufficient erosion or gullyng of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate any evidence of seepage through the embankment section.
- Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.
- Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.
- Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

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

SUGGESTED CHECK LIST NO. 3  
 CHANNEL AND RIGHT-OF-WAY  
 UNIT NO. 11  
 SAN JOAQUIN RIVER

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 or 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.

SUGGESTED CHECK LIST NO. 4  
DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 11  
SAN JOAQUIN RIVER

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a)	Location by Levee Mileage	
(b)	Bank	
(c)	Debris or other obstruction to flow	
(d)	Damage or Settlement of Pipe or conduit	
(e)	Condition of concrete head- wall or invert paving	San Joaquin River - Left Bank (As listed in Paragraph 2-02)
(f)	Condition of right-of-way adjacent to structure	
(g)	Repair Measures taken since last inspection	
(h)	Comments	

Instruction 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

LETTERS OF ACCEPTANCE BY  
THE STATE RECLAMATION BOARD

EXHIBIT F

THE RECLAMATION BOARD  
State of California

December 29, 1958

C  
O  
P  
Y

C  
O  
P  
Y

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

Gentlemen:

Reference is made to your letter of December 3, 1958, file number SPKKO-P 824.3 (Lower S.J. Riv. & Trib Proj.), regarding the responsibility for operation and maintenance of the right and left banks of Old River from Head of Old River to Paradise Cut, San Joaquin County.

The Reclamation Board at its meeting of December 18, 1958, formally accepted the maintenance responsibility of the above described area and as described in the first, second, third, fourth and fifth paragraphs of your letter under the conditions outlined in your letter.

Yours very truly,

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

/s/ By William A. Carver  
WILLIAM A. CARVER  
Assistant Secretary

EXHIBIT F  
Sheet 1 of 4

THE RECLAMATION BOARD  
State of California

November 10, 1959

C  
O  
P  
Y

C  
O  
P  
Y

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

Dear Sir:

Reference is made to your letter of October 30, 1959, SPKKO-P, regarding transfer to the State of levee sections on the left bank of the San Joaquin River at the locations listed below:

<u>Levee Unit</u> <u>No.</u>	<u>Site</u> <u>No.</u>	<u>River Mile Points</u>
32	1	53.19 to 53.76
33	4	55.65 to 55.99
34	8	60.93 to 61.22

The Reclamation Board at its meeting of November 5, 1959, formally accepted these levee sections for operation and maintenance with the understanding that at Site 8, which is a test section, the bank protection itself will remain under the maintenance of the Corps of Engineers during the test period.

Sincerely yours,

/s/ A. N. MURRAY  
A. N. MURRAY  
General Manager and Chief Engineer

EXHIBIT F  
Sheet 2 of 4

THE RECLAMATION BOARD  
State of California

C  
O  
P  
Y

January 15, 1962

C  
O  
P  
Y

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

Dear Sir:

Reference is made to your letter of November 27, 1961, regarding the transfer to the State of California of levee improvement and patrol road work along the left and right banks of the San Joaquin River from Walthall Slough and Banta-Carbona Intake downstream to Old River under Specifications No. 2656.

The Reclamation Board at its meeting of January 4, 1962, formally accepted the above referred to levee and patrol road work for operation and maintenance.

Sincerely yours,

/s/ ROBERT W. JAMES  
ROBERT W. JAMES  
General Manager and Chief Counsel

C  
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Y

C  
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Y  
JAN 9 1968

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

Dear Sir:

Reference is made to your letter of December 27, 1967 concerning transfer to the State of California of the San Joaquin River Flood Control Project, left bank of the San Joaquin River between Durham Ferry Road and the Banta Carbona Lift Canal, in accordance with Specification No. 3042.

The Reclamation Board, at its meeting of January 5, 1968, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F  
Sheet 4 of 4

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

SPEKO-P 824.3 (Lower S.J. Riv & Trib Proj)

3 DEC 1958

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

14

Gentlemen:

Reference is made to Reclamation Board letter dated 9 February 1956 in reply to Sacramento District letter dated 3 November 1955 relative to the State's responsibility for the acceptance for maintenance of individual project units pertaining to the Lower San Joaquin River and Tributaries Project constructed by the Corps of Engineers.

Further reference is made to Sacramento District letter dated 31 March 1958 relative to plans and specifications No. 2402, Levee Construction and Stone Protection, Left Bank San Joaquin River, Santa Carbons Intake to Head of Old River, San Joaquin County, California.

The following listed units of work consisting of levee construction and stone protection have now been completed in accordance with Specification No. 2402, Contract No. DA-04-167-CIVENG-58-53 and Drawing No. 7-4-1519. In accordance with the understandings in the above referenced correspondence these levee units, together with the waterway banks contiguous thereto, are hereby transferred to the jurisdiction of the State of California for operation and maintenance.

<u>Levee Unit No.</u>	<u>Site No.</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
29	6	57.37 to 57.54	Left
B.C. 30	9*	62.49 to 62.73	Left
A, V, A 31	10*	63.13 to 63.45	Left

Units 9, 11

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by a Standard Operation and Maintenance Manual for the Lower San Joaquin

\* Sites #8, 9 & 10 to be maintained by Corps.

Posted

Cont # 58-63  
Units 29-31

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

SAC OPNS OFV

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

SPIKO-F 824.3 (Lower S.J. Riv & Trib Proj)  
The Reclamation Board

3 DEC 1958

River and Tributaries Project which is being prepared. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work will be furnished to you upon completion.

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

Sincerely yours,

1 Incl  
F.C. Reg.

Copy furnished:  
State Dept Water Res w/o incl  
O.C.E. w/o incl  
SoPacDivnEngr w/o incl

A. E. McCOLLAM  
Colonel, CE  
District Engineer

cc: Engr Divn w/o incl  
Northern Area Ofc w/o incl  
Sac Opns Ofc w/o incl

*Units 9-11*

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

30 OCT 1959

SPKKO-P

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

285/65

Gentlemen:

Reference is made to Sacramento District letter dated 3 December 1958, and to correspondence outlined therein relative to the State's responsibility for acceptance for maintenance of individual project units pertaining to the Lower San Joaquin River and Tributaries Project constructed by the Corps of Engineers.

Further reference is made to Sacramento District letter dated 31 March 1959 relative to plans and specifications No. 2402, Levee Construction and Stone Protection, Left Bank San Joaquin River, Banta Carbona Intake to Head of Old River, San Joaquin County, California.

The following listed units of work, consisting of levee construction and bank protection, have now been completed in accordance with Specification No. 2402, Contract No. DA-04-167-CIVENG-58-63 and Drawing No. 7-4-1519. In accordance with the understandings in the above referenced correspondence these levee units, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance:

<u>LEVEE UNIT NO.</u>	<u>SITE NO.</u>	<u>RIVER MILE POINTS</u>	<u>RIGHT OR LEFT BANK</u>
32	1	53.19 to 53.76	Left
33	4	55.65 to 55.99	Left
34	8 (test sec.)	60.93 to 61.22	Left

Units 59, 11

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by a Standard Operation and Maintenance Manual for the

Postcard

REGISTERED

RETURN RECEIPT REQUESTED

30 OCT 1959

SPKKO-P  
The Reclamation Board

Lower San Joaquin River and Tributaries Project which is being prepared. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work will be furnished to you upon completion.

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

Sincerely yours,

H. A. MORRIS  
Colonel, CE  
District Engineer

1 Incl  
F.C. Reg.

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

W.C.E. w/o incl  
S.P.D. w/o incl

cc: Engr Divn, Levees & Channels Sec w/• incl  
Northern Area Office w/o incl  
Operations Branch w/o incl

*[Handwritten signature]*

Concurrences	
Originator:	LTK
Date:	10/27/59
Dist.	
Engr.	3
Asst. D.E. (A)	
Asst. D.E. (O)	
Exec. Asst.	<i>[Handwritten signature]</i>
Cmptr.	
Budget Fin. & Acctg.	
Mgmt.	
Property Office Service	
Constn- Opns.	<i>[Handwritten signature]</i>
Engr's	<i>[Handwritten signature]</i>
R. E.	
Prsnl.	
Legal	
Supply	
<i>[Handwritten initials]</i>	
<i>[Handwritten initials]</i>	

REGISTERED  
RETURN RECEIPT REQUESTED

*[Handwritten initials]*

7 DEC 1959

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

Gentlemen:

Reference is made to the joint inspection made on 16 November 1959 of certain levee sections pertaining to the Lower San Joaquin River and Tributaries Project for the purpose of transferring them to the State of California for operation and maintenance.

The required work, consisting of levee construction and bank protection, is completed in accordance with Specification 2565, Contract No. DA-04-167-CIVENG-59-131 and Drawing No. 7-4-1588. The levee sections referred to above, located on the San Joaquin River at Priority sites, are listed as follows:

<u>LEVEE SECT NO.</u>	<u>SITE NO.</u>	<u>BANK</u>	<u>RIVER MILE POINTS</u>
35	E	Right	61.35 to 61.52 and 61.67 to 61.82 <i>Unit 3</i>
36	B	Left	65.63 to 65.84 <i>Unit 11</i>
37	C	Right	66.02 to 66.15 <i>Unit 3</i>

The levee sections Nos. 35 to 37 inclusive, described above, now meet the requirements of the Lower San Joaquin River and Tributaries Project. Therefore, said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended

*Units 3, 11  
 Posted*

#35, 36 & 37

7 DEC 1959

SPKKO-P  
The Reclamation Board

and supplemented by a Standard Operation and Maintenance Manual for the Lower San Joaquin River and Tributaries Project which is being prepared. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work will be furnished to you upon completion.

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

Sincerely yours,

~~JOSEPH H. SHERRARD~~  
Lt Colonel, CE  
Acting District Engineer

*H.A. Morris*

1 Incl  
F.C. Reg.

Copy furnished:  
Dept Water Resources  
23rd & "R" Sts.  
Sacramento, Calif.  
O.C.E. w/o incl  
S.P.D. w/o incl

cc: Engr Divn, Levees & Channel Sec w/o incl  
Northern Area Office w/o incl

OPERATIONS BRANCH

Concurrence	
Originator	LHK
Date	12/3/59
Dist. Engr.	<i>H.A. Morris</i>
Asst. D.E. (A)	
Asst. D.E. (O)	
Exec. Asst.	<i>3/11</i>
Com. Dir.	
Product. Dir.	
Adm. Serv.	
Constn. Opns.	<i>[Signature]</i>
Engr'g	<i>[Signature]</i>
R. E.	
Personl.	
Legal	
Supply	

#35, 36 + 37

*Unit 5 3, 11*

*Levee 15*  
*Levee 19*

27 NOV 1961

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

Gentlemen:

Reference is made to the joint inspections made on 16 October 1961 and 14 November 1961 of certain levee sections pertaining to the Lower San Joaquin River and Tributaries Project for the purpose of transferring them to the State of California for operation and maintenance.

The required work, consisting of levee construction and bank protection, right and left banks San Joaquin River from Walthall Slough to Old River and Banta Carbona Intake to Old River, was completed on 17 November 1961, in accordance with Specification 2656, Contract No. DA-04-167-CIVENG-61-72 and Drawing No. 7-4-1554. The levee sections referred to above are listed as follows:

a. Levee construction and bank protection:

<u>Levee Unit No.</u>	<u>Site No.</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
40 (Test Site F)	11	60.70 to 60.85	Left <i>Unit 11</i>
41	J	56.97 to 57.15 (Walthal Slough)	Right <i>Unit 2</i>
42	K	56.50 to 56.90	Right <i>Unit 2</i>
43	K-Ext	56.23 to 56.32	Right <i>Unit 9</i>
44	L	56.23 to 56.75	Left <i>Unit 2</i>
45	M	54.85 to 55.32	Left <i>Unit 2</i>
46	N	Spur levee at Mi 55.07, 1044-ft in length	Right <i>Unit 2</i>
47	O	52.65 to 53.93	Right <i>Unit 2</i>

Transfer of Levee Unit No. 40 (Test Site F) above, includes levee and berm only. The bank run dredge tailings bank protection will be maintained by the Corps of Engineers until such time as this reach meets the requirements of the Project.

*Postal*

27 NOV 1961

SFKKO-C  
The Reclamation Board

b. Shaping and gravel surfacing of levee crown, left bank San Joaquin River at Sites Nos. 1 (Banta Carbona Canal), 2, 3, 3a, 4 & 4a (Paradise Cut to U.S. Highway 50), 5, 6 & 7, between River Mile 53.4 to 63.6; shaping and gravel surfacing of levee crown, right bank San Joaquin River at Sites Nos. 8, 9, 9a, 9b & 10, between River Mile 53.4 to 57.0.

The above work, together with portions of flood control work transferred to the State of California by letter from this office dated 18 September 1961, completes all requirements under the contract designated herein, with exceptions as noted.

It is to be noted that the levee sections described above combined with other sections previously transferred to your jurisdiction, now form a continuous levee reach along the left bank of San Joaquin River from Banta Carbona Canal to Old River, and along the right bank from Walthal Slough to Old River.

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

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

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

Sincerely yours,

H. N. TURNER  
Colonel, CE  
District Engineer

1 Encl  
F.C. Reg.

Copy furnished:  
Dept Water Resources  
23rd & "R" Streets  
Sacramento, Calif.

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

cc: Engr Divn, ProgDevBr; Engr Divn, Lev&ChanSect, Norther Area Ofc, F&ABr.w/o incl

OPERATIONS BRANCH  
CHANNELS & LEVEES SECTION

Concurrences	
Originator:	LHK
Date:	11/27/61
Dist. Engr.	[Signature]
Dep. Dist. Engr.	[Signature]
Exec. Asst.	
Cmplr.	
Budget	
Fin. & Acctg.	
Mgmt.	
Property	
Office Service	[Signature]
Const. Opns.	
Engr'g.	
R. E.	
Personnel	
Counsel	
Supply	
Security	
Safety	
Tech. Liaison	

Units 2, 9, 11

*Transfer files*

11 September 1967

SPIKCO-F

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

Gentlemen:

Reference is made to the joint inspection of 29 August 1967, made for the purpose of transferring the seven completed test sites on the Lower San Joaquin River and Tributaries Project to the State of California for operation and maintenance. Reference is also made to the attached correspondence concerning these test sites. This portion of work concerns test sections completed in Units 30, 31, 34 & 40, which were transferred to the State at various dates as referenced on the attached inclosures.

The seven test sites were constructed using various bank protection materials, on the left bank of the San Joaquin River, downstream from the Banta-Carbona Canal to Paradise Cut. Construction of Test Sections A1, A2, B, C, D & E was completed in the summer and fall of 1959. These sites were constructed in accordance with Specification No. 2402, Contract No. DA-04-167-CIVENG-58-63 and Drawing No. 7-4-1519. Construction of Test Section F was completed in the fall of 1961 and was constructed in accordance with Specification No. 2656, Contract No. DA-04-167-CIVENG-61-72, and Drawing No. 7-4-1554. The work was performed under the general authority of the Lower San Joaquin River and Tributaries Project, which was authorized by the Flood Control Act of 22 December 1944, PL 534, 78th Congress, 2nd Session.

This completed flood control work now meets the requirements of the Lower San Joaquin River and Tributaries Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with

*Unit 10, 11*

SPKCO-F  
The Reclamation Board

11. September 1967

the inclosed Flood Control Regulations. These regulations have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented by a Standard Operation and Maintenance Manual for the Lower San Joaquin River and Tributaries Project. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering the above work will be furnished to you upon completion.

Sincerely yours,

- 3 Incl  
1. Six Transfer Letters  
2. Dwg #7-20-1521  
3. FC Regulations

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

Copy furnished:  
Dept Water Resources

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

cc: Engr Div-Lev & Chan  
Engr Div-Prog Dev  
Valley Res Ofc  
R&A-Cordano

12  
ROMPAIA/pp

COLEMAN

HENSON

HART

YOUNG

Units 10, 11

27 December 1967

SPKKO-F

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

Gentlemen:

Reference is made to the joint inspection of 30 November 1967, made for the purpose of transferring a completed portion of the flood control work on the Lower San Joaquin River and Tributaries Project to the State of California for operation and maintenance.

The flood control work consists of levee enlargement, levee construction, levee setback, shaping levee crown, bank sloping and stone protection on the left bank of San Joaquin River between Durham Ferry Road and Banta Carbona Lift Canal. The work unit No. 81, as shown on the attached inclosure, was completed on 11 December 1967, in accordance with Specification No. 3042, Contract No. DA-04-167-CIVENG-66-103, and Drawing No. 7-4-1685.

The work was performed under the general authority of the Lower San Joaquin River and Tributaries Project, which was authorized by the Flood Control Act of 1944, 78th Congress, 2nd Session.

The completed flood control work as described in the attached inclosure now meets the requirements of the Lower San Joaquin River and Tributaries Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with the inclosed Flood Control Regulations. These regulations have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented by a Standard Operation and Maintenance Manual for the Lower San Joaquin River

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Unit 11

SPKKO-F  
The Reclamation Board

27 December 1967

and Tributaries Project. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering the above work will be furnished to you upon completion.

Sincerely yours,

2 Incl  
as stated

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

Copy furnished:  
Dept Water Resources

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

cc: Engrg Div-Lev & Chan  
Engrg Div-Prog Dev  
Valley Res Ofc  
F&A (Cordano)

*[Signature]*  
ROMPAIA/p

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON

*[Signature]*  
HARRIS

*[Signature]*  
YOUNG

*[Signature]*  
27

*et*

*Unit 11*

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

COPY

20 January 1970

COPY

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

Attention: Construction-Operations Division

Dear Sir:

Reference is made to the San Joaquin River Flood Control Project, and in particular to the Completion Phase, Right and Left Banks, San Joaquin River and Stanislaus River, Specification No. 3455, Contract No. DACW05-68-C-0086.

A review of this work was made in the field on December 27, 1968. The work was found to conform to the contract plans and specifications and the involved reclamation districts have been informed of the completion of project construction in this reach of the San Joaquin and Stanislaus Rivers.

Sincerely yours,

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

EXHIBIT F

*File*

Navigation and Flood Control Unit

FEB 14 2001

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

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the west levee of the San Joaquin River, in Unit 2 from Levee Mile 0.00 to 0.69, and in Unit 1 from Levee Mile 0.00 at Banta Carbona Intake to Levee Mile 5.20 at Airport Way, all in RD 2085, Basin No. SJ 9, to the State of California for operation and maintenance.

The work consisted of restoring the left waterside bank of the San Joaquin River damaged by the January 1997 Flood by repairing the embankment with levee fill between L.M. 0.00-0.69. The left bank Patrol Road was repaired with aggregate base between L.M. 0.67-0.69. The landside embankment was repaired with river run rock, utilizing filter fabric between L.M. 2.52-2.57. The existing ramp was regraded to match the adjacent undisturbed slope. A toe drain with 18-inch RC pipe was installed along the toe, utilizing filter fabric. All sandbags were removed from site. The work as listed in the enclosure was completed on October 29, 1997, in accordance with Specification No. 9893E, Drawing File No. SJ-4-112, Contract No. DACW05-97-C-0130.

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the San Joaquin River in RD 2085. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of the date of this letter to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, San Joaquin River Flood Control Project that is being transferred under separate cover.

Sincerely,

Michael J. Walsh  
Colonel, Corps of Engineers  
District Engineer

MINTON/dd *[Signature]*

TAVANA *[Signature]*

SANDNER *[Signature]*

WINTON *[Signature]*

DURHAM-AGUILERA *[Signature]*

DOYLE *[Signature]*

KORMAN *[Signature]*

CHARLTON *[Signature]*

O'BRIEN *[Signature]*

WALSH *[Signature]*

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

*Unit 11*

EXHIBIT G

**SUGGESTED SEMI-ANNUAL REPORT FORM**

**EXHIBIT G**

TO: The District Engineer  
Sacramento District  
Corps of Engineers  
650 Capitol Mall  
Sacramento, California

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

Dear Sir:

The semi-annual report for the period (1 May 19\_\_ to 31 October 19\_\_ ) (1 November 19\_\_ to 30 April 19\_\_ ) Unit No. 11 of the Lower San Joaquin River and Tributaries 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, high water periods (water level in excess of 30.5 feet on the gage on the San Joaquin River at Vernalis) 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 at Vernalis gage 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