
SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

SACRAMENTO RIVER
FLOOD CONTROL PROJECT

UNIT NO.146
NORTH LEVEE OF BEAR RIVER
AND
SOUTH LEVEE OF SOUTH DRY CREEK
R.D. NO. 817 AND VICINITY OF WHEATLAND



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

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**U. S. ARMY ENGINEER DISTRICT, SACRAMENTO
Corps of Engineers
Sacramento, California
November 1962**

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LOCATION	ADDITION OR REVISION	DATE
1-04 d.	Add contract no. 63-28	Oct 1964
Exhibit B	Add drawing no. 2-4-174	Oct 1964
Exhibit F	Add letter of acceptance dated 16 Dec 1963	Oct 1964
1-04 e.	Add contract no. 66-50	Dec 1966
Exhibit B	Add drawing no. 50-4-4004	Dec 1966
Exhibit F	Add letter of acceptance dated 28 Jun 1966	Dec 1966
1-04 f.	Add contract no. 70-0088	Feb 1971
Exhibit B	Add drawing no. 50-4-4377	Feb 1971
Exhibit F	Add letter of acceptance dated 27 Oct 1970	Feb 1971
Exhibit F	Add copy of letter of transfer dated 1 Dec 1951	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 13 Dec 1951	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Apr 1952	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 2 Oct 1952	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 3 Dec 1952	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 24 Oct 1963	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 16 Dec 1963	27 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 21 Apr 1965	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Jan 1987	27 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Jun 1966	2 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 28 Jun 1966	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 20 Oct 1970	2 Feb 2011

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B	"As Constructed" Drawings	Unattached
C	Plates of Suggested Flood Fighting Methods . . . (Contained in Standard Manual)	Unattached
D	Suggested Check List No. 1 - Levee Inspection . . (Contained in Standard Manual)	Unattached
E	Suggested Check List - Levee, Channels and . . . Structures	Sheets 1 thru 9
F	Letter of Acceptance by and Transfer to the . . State Reclamation Board	Sheets 1 thru 4
G	Suggested Semi-Annual Report Form	Sheets 1 and 2

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SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project levee and channel that is located in Yuba County, California within Reclamation District No. 817 and in the vicinity of Wheatland. The levee lies along the right bank of the Bear River from the junction of the Bear River and South Dry Creek upstream to high ground and along the left bank of South Dry Creek from said junction to high ground. Description of levee mileage follows: Unit No. 2 in R.D. 817 easterly along the right bank of Bear River from said junction upstream mile 0.00 to mile 3.87; thence continuing upstream along the right bank of the Bear River for Unit No. 2 in the vicinity of Wheatland to high ground mile 0.00 to mile 5.0; thence for the left bank of South Dry Creek from said junction easterly and upstream Unit No. 1 in R.D. 817 mile 0.00 to mile 3.82; thence continuing upstream for Unit No. 1 in the vicinity of Wheatland Unit No. 1 mile 0.00 to mile 4.77. The total levee mileage in this unit is 17.46. The general location is as shown on the vicinity map, EXHIBIT A-1.

1-02. Project Works. The project works covered by this manual are 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 the levees and channels as described in paragraph 1-01 above.

1-03. Protection Provided. Levees of this unit provide direct protection to adjacent agricultural lands together with related homes, buildings and roads. Along the north (right bank) levee of the Bear River the grade of the adopted flood plane varies from elevation 112.0 at the upper end to elevation 65.6 at its junction with South Dry Creek. Along the south (left bank) levee of South Dry Creek the grade of the adopted flood plane profile varies from elevation 102.0 at the upper end to elevation 65.6 at its junction with the Bear River. All elevations are referred to

U. S. Corps of Engineers datum. Levee grades within this unit provide for a freeboard of at least 3 feet above the adopted flood plane profile. The project design flood for the Bear River is 30,000 cubic feet per second and 9,000 cubic feet per second for South Dry Creek.

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. Raising of the south levee of South Dry Creek was accomplished under Contract No. W-1105-eng-2093 by Morrison & Knudsen Company, contractor and completed on 19 August 1938.

b. Construction and repair of the levees of North and South Dry Creeks was accomplished under Contract No. W-04-167-eng-633 by H. Earl Parker, contractor and completed on 6 October 1945.

c. Levee construction on the right bank of the Bear River from Carlin Bridge to high ground was accomplished under Contract No. DA-04-167-CIVENG-62-61 by H. Earl Parker, Inc. during the period from 2 April 1962 to 20 August 1962.

* [1-04 continued on 2A] →
1-05. Flood Flows. For purposes of this manual, the term "flood" or "high water period" for this unit shall refer to flows when the water surface in the Bear River reaches or exceeds the reading of 12.0 on the U. S. Geological Survey gage located on the U. S. Highway 99E bridge, 1 mile southeast of Wheatland, California (zero on this gage is approximately 78.9 U. S. Geological Survey datum).

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

1-07. Acceptance by and Transfer to the State Reclamation Board. A portion of the levees within this unit were accepted by letter dated 22 May 1952 and another portion was transferred to the State Reclamation Board by letter dated 23 August 1962, as shown on copies of letters, EXHIBIT F.

1-08. Inspection procedure. Since the enactment of 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

1-04 cont'd.

d. Levee construction, right and left banks Bear River, W.P.R.R. Interceptor Channel and Yankee Slough was accomplished under Contract No. DA-04-167-CIVENG-63-28 by H. Earl Parker, Inc., during the period from 11 September 1962 to 18 October 1963, Specification No. 2792, Drawing

1-04 e. Bank protection at two locations on the right bank of the Bear River at Levee Miles 1.76 and 2.98 was accomplished under Contract No. DA-04-167-CIVENG-66-50 by H. Earl Parker, Inc. during the period from 18 October 1965 to 14 June 1966. Specification No. 3154. Drawing No. 50-4-4004.

f. Bank protection at three locations on the left bank of South Dry Creek at levee miles 1.30, 2.00 and 3.50 and on the right bank of Bear River at levee miles 2.50 and 3.85. All work was accomplished under Contract No. DA-05-70-C-0088 by H. Earl Parker, Inc. during the period from 19 May 1970 to 24 September 1970. Specification No. 3426, Drawing No. 50-4-4377.

District, Corps of Engineers, U. S. 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 8471, 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 Sacramento River 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:

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. Description. Levees as described in paragraph 1-01 of this manual lie along the right bank of the Bear River from the junction of the Bear River and South Dry Creek upstream a distance of 8.87 miles to high ground. Also, along the left bank of South Dry Creek from said junction upstream a distance of 8.59 miles to high ground. The levees have been reconstructed with slopes of 1 on 3 waterside and 1 on 2 landside and crown width of 20 feet for the Bear River and 20 feet and 12 feet for South Dry Creek. 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) Check Lists - EXHIBIT E of this Supplement Manual.

(3) Operation - paragraph 4-04 of the Standard Manual.

(4) Special Instructions - paragraph 4-05 of the Standard Manual.

2-02. Drainage and Irrigation Structures.

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

Levee:	Size of	:	:	Feet
Mile :	Pipe :	Other Structure	Description	: Below Crown
<u>Unit No. 1 - South Levee South Dry Creek Within R.D. 817</u>				
0.28	48"	Flapgate	W.S.	23.3
1.04	18"	Slidegate	W.S.	
1.34	18"	"	"	14.9
1.62	18"	"	"	13.8
2.29	18"	"	"	11.7
2.65	18"	"	"	10.5
2.94	18"	"	"	9.0
2.97	36"	"	"	13.7
3.43	36"	"	"	13.5

Levee: Size of	:		Feet
Mile :	Pipe :	Other Structure Description	: Below Crown

Unit No. 1 - South Levee South Dry Creek Vicinity of Wheatland

0.55	8-5/8"		3.0
0.56	16"	Gas line	2.9
0.63	16"	Gas Line	3.0
0.83	36"	Flapgate W.S.	
1.86	12"	Vertical Pump W.S.	3.1
2.06	18"		11.5
2.39	10"	Vertical pump W.S.	2.8
2.68	8"	Pump L.S.	3.1
3.70	18"	Flapgate W.S.	12.0

Unit No. 2 - North Levee Bear River Within R.D. 817

1.01	12"		13.5
2.08	14"	Concrete pipe - abandoned	4.0
2.15	1-1/4"		1.5
2.41	24"	Slidegate in Riser Unit W.S.	12.0

Unit No. 2 - North Levee Bear River - Vicinity of Wheatland

1.30	16"	Gas line	3.0
1.30	8"	Sewer line - Gate valve L.S.	2.8
1.79	8-5/8"	Gas line	3.0
2.67	2-30"	Slidegates in Riser Units W.S.	13.8
3.29	24"	Slidegate in Riser Unit W.S.	12.6
3.86	4"	Sewer line	10.0
3.98	3"	Sewer line	3.0
4.05	24"	Slidegate in Riser Unit W S	8.0
4.05	8"	Gas line	6.0
4.05	4"	Water line	6.0
4.87	24"	Slide gate in Riser Unit W.S.	9.0

Note on abbreviations:

W.S. = Waterside

L.S. = Landside

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

(1) Maintenance - paragraph 5-02 of the Standard Manual.

(2) 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 channels and floodways of the Bear River and South Dry Creek lie adjacent to the levees as described in paragraph 1-01. The project design capacities of the Bear River and South Dry Creeks are as 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 periods of flood danger, and maintain a patrol of the project works in their area during periods of flood in excess of a reading of 12.0 on the staff gage and continuous water stage recorder located on the Bear River at the U. S. Highway 99E bridge.

The Flood Operation Center is responsible for data collection and issuance of a joint river forecast with the U. S. Weather Bureau and coordinates with the Sacramento District Engineer, and other agencies to keep appraised of the current situation in accordance with terms of the Memorandum of Understanding dated 1 November 1956, between the Division Engineer, U. S. Army 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) Bridges.

(a) Carlin Bridge crossing the Bear River about one mile upstream from the junction of the Bear River and South Dry Creek.

(b) U. S. Highway No. 99E bridge crossing the Bear River near Wheatland.

(c) Southern Pacific Railroad bridge crossing the Bear River near Wheatland.

(d) Old Marysville Road bridge crossing South Dry Creek about one mile upstream from the junction of South Dry Creek and the Bear River.

(e) A low water farm bridge crossing South Dry Creek about 1.9 miles upstream from the junction of South Dry Creek and the Bear River.

(f) Oakley Lane bridge crossing South Dry Creek about 3.8 miles upstream from said junction.

(g) U. S. Highway 99E bridge crossing South Dry Creek north of Wheatland.

(h) The Southern Pacific Railroad bridge crossing South Dry Creek north of Wheatland.

(i) The Jasper Lane bridge crossing South Dry Creek about 2.2 miles upstream from the U. S. Highway 99E bridge crossing.

(2) Utility Relocations. Because of the nature of the construction of structures by local interests, records of utility relocations are not available.

(3) Hydrologic Facilities.

(a) A continuous water stage recorder and staff gage to be maintained by the U. S. Geological Survey that is located on the U. S. Highway 99E bridge near Wheatland, California.

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 Sacramento River Flood Control Project. The State representative will give assistance or advise, 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)

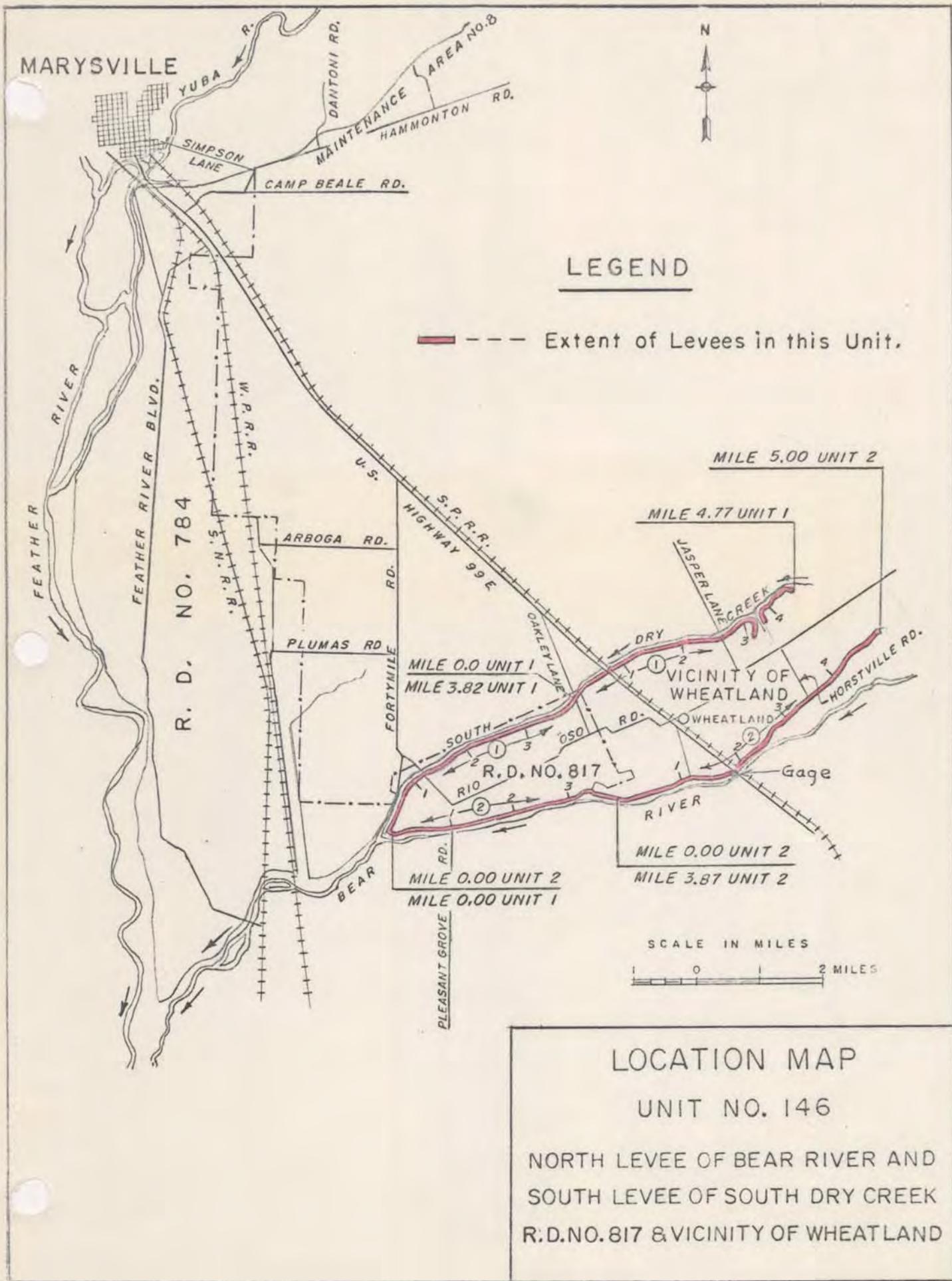


EXHIBIT B

“AS CONSTRUCTED”
DRAWINGS

See separate folder for the following drawings:

<u>FILE NO.</u>	<u>TITLE</u>
2-4-55-1	Proposed Work Along South Dry Creek Lateral from Bear River to Horstville, in 9 sheets.
2-4-106	Bear River Levees from W.P.R.R. Upstream 4 Miles, South Dry Creek Levees Upstream from Mouth 2 Miles, in 6 sheets.
2-4-165	Right Bank Bear River Vicinity of Carlin Bridge to High Ground, in 14 sheets.
2-4-174	Levee Construction, Right and Left Banks Bear River W.P.R.R. Interceptor Channel and Yankee Slough, in 22 sheets.
50-4-4377	Bank Protection, Various Locations on Bear River and Feather River, Elder and South Dry Creek, in 14 Sheets. (Unit No. 18)
50-4-4004	Bank Protection, Various Locations, Rt. and Lt. Bank Sacramento River and Rt. Bank Feather River, in 28 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

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

SUGGESTED CHECK LIST NO. 2

UNIT NO. 146

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	

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 nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate any evidence of seepage through the embankment section.
- Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.
- Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.
- Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

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

SUGGESTED CHECK LIST NO. 3

CHANNEL AND RIGHT-OF-WAY

UNIT NO. 146

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(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 a 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. 146

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 headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures taken since last inspection	(h) Comments
0.28 1.04 1.34 1.62 2.29 2.65 2.94 2.97 3.43	Lt. Lt. Lt. Lt. Lt. Lt. Lt. Lt. Lt.						

Unit No. 1 - South Levee South Dry Creek Within R.D. 817

SUGGESTED CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 146

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

(a) Location by Levee mileage	(b) Bank	(c) Debris or other obstruc- tion to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete head- wall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures taken since last inspection	(h) Comments
<u>Unit No. 1 - South Levee South Dry Creek Vicinity of Wheatland</u>							
0.55	Lt.						
0.56	Lt.						
0.63	Lt.						
0.83	Lt.						
1.86	Lt.						
2.06	Lt.						
2.39	Lt.						
2.68	Lt.						
3.70	Lt.						
<u>Unit No. 2 - North Levee Bear River Within R.D. 817</u>							
1.01	Rt.						
2.08	Rt.						
2.15	Rt.						
2.41	Rt.						

SUGGESTED CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 146

Inspector's Report Sheet No. _____

Inspector _____

Date		Superintendent					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Location by levee mileage	Bank	Debris or other obstruction to flow	Damage or settlement of pipe or conduit	Condition of concrete headwall or invert paving	Condition of right-of-way adjacent to structure	Repair measures taken since last inspection	Comments
1.30	Rt.						
1.30	Rt.						
1.79	Rt.						
2.67	Rt.						
3.29	Rt.						
3.86	Rt.						
3.98	Rt.						
4.05	Rt.						
4.05	Rt.						
4.05	Rt.						
4.87	Rt.						
<u>Unit No. 2 - North Levee Bear River - Vicinity of Wheatland</u>							

INSTRUCTIONS FOR COMPLETING SHEET 6, EXHIBIT E

(To be printed on back of Sheet 6, 7 & 8)

- (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 AND TRANSFER TO
THE STATE RECLAMATION BOARD

EXHIBIT F

C
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THE RECLAMATION BOARD
of the
STATE OF CALIFORNIA

C
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Y

May 22, 1952

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

Dear Sir:

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

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

Yours very truly,
THE RECLAMATION BOARD

By/s/A. M. Barton
A. M. BARTON
Chief Engineer and General Manager

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

<u>Date of Letter</u>	<u>Levee Location</u>	<u>Remarks</u>
-----	-----	-----
3 December 1951	p. N. levee South Dry Creek from Bear R. to high ground	Completed Contract. Maintained by R.D. No. 817
-----	-----	-----
"	r. South levee of South Dry Creek from Bear River easterly 1.86 miles.	Completed Contract. Maintained in R.D. No. 817
"	s. North levee Bear River from South Dry Creek easterly to 4,000 feet easterly from Carlin Bridge.	Completed Contract. Maintained by R.D. No. 817
-----	-----	-----

NOTE: Only portions pertaining to Unit No. 146 contained in this copy.

C
O
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SPKKG-C

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Y

23 August 1962

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

Gentlemen:

Reference is made to the joint inspection made on 24 July 1962 of a certain levee unit pertaining to the Sacramento River Flood Control Project for the purpose of transferring this work, upon completion, to the State of California for operation and maintenance.

This work, designated in Unit No. 666, consisting of levee construction and bank protection on the right bank of Bear River between mile points 6.88 to 13.53 incl., was completed on 20 August 1962, in accordance with Specification No. 2739, Contract No. DA-04-167-CIVENG-62-61, and Drawing No. 2-4-165.

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

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

EXHIBIT F
Sheet 3 of 4

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

Sincerely yours,

H. N. TURNER
Colonel, CE
District Engineer

REGISTERED MAIL
Return Receipt
Requested

Arrieta

①

Letter No 1

1 DEC 1951

Legend Notes:

Accepted Items

Not accepted Items

15

18

SPKKA 624,3(Sac. Riv. F.C.P.)

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

Refer. Recl. Board letter 2 April 1952:

Items ① to ④ were formally accepted
by the Board on 18 Dec. 1951.

Item ⑤ will not be accepted. ^{The} Board
considers this unit is not suitable
for maintenance.

The Board requests formal transfer of ~~leves~~
South Levee of South Dry Creek and North Levee
of Bear River east of Reclamation District No. 817

Ref. map - Reach No. 45; Information ^{showing} acceptance of
levees east the S.P.R.R. is incorrect.

Gentlemen:

A recent review of the status of the works comprising the Sacramento
River Flood Control Project as authorized prior to the Flood Control Act
of 1944 has disclosed that the following works meet the requirements of
the Project:

Reach 12 ① a. Southerly Moulton Weir Training levee from Sacramento River
southeasterly to the County Road. 154

Reach 11 ② b. Northerly Moulton Weir Training levee from Sacramento River
to Moulton Weir. 154

Reach 12 ③ c. Southerly Colusa Weir Training levee from Sacramento River
easterly to its terminus in Butte Basin. 155

Reach 12 ④ d. Northerly Colusa Weir Training levee from Sacramento River
easterly to its terminus in Butte Basin. 155

Reach 45 ⑤ e. Grasshopper Creek Diversion Channel, easterly from Wheatland,
from its head at Grasshopper Creek northerly to South Dry Creek. 146

The works covered by Items a. to e., inclusive, above, although com-
plete have not been formally transferred as contemplated by the Project
documents. Accordingly said works, together with the waterway banks con-
tiguous thereto, are hereby transferred to the State of California for
maintenance and operation.

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

111A
106 to 158

Reach 45 ?

Items 1 to 5

①

Letter No. 1

1

SPKRA 924.3 (Sec. Div. F.C.P.)
The Reclamation Board

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

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

Sincerely yours,

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

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



1

C. de ARRIETA

REGISTERED MAIL
Return Receipt
Requested

Letter No. 13

①

⑬

13 DEC 1951

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

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

Accepted by the Recl. Board:

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

Not Accepted

 No capable of separate maint.

Gentlemen:

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

The levee reaches in question are located as follows:

a. Sherman Island levee of Three Mile Slough.

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

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

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

Items 199 to 295

⑬

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

d. Easterly levee of the Sacramento River.

Reach
19

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

2 X

Reach
19

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

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

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

Head 17



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

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

Reach 17

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

Reach 1A



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

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

Letter No. 13

13

f. Westerly levee of Sutter Slough. 113

Ranch 36

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

g. Westerly levee of Elkhorn Slough.

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

h. Westerly levee of the Sacramento River.

Ranch 3

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

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

XB

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

13

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

k. Northerly levee of Natamas Cut.

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

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

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

Letter No. 13 (13)

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

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

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

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

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

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

EARL WARREN
GOVERNOR

A. R. GALLAWAY, JR., SACRAMENTO
PRESIDENT

GROVER SHANNON, YUBA CITY
VICE PRESIDENT

GEO. H. HOLMES, CLARKSBURG
SECRETARY

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

A. M. BARTON
CHIEF ENGINEER AND GENERAL MANAGER

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

April 2, 1952

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

Dear Sir:

This is in reply to your 1 December 1951, your file SPKKA 824.3 (Sac. Riv. F.C.P.) transferring levees and contiguous waterway banks to The Reclamation Board as follows:

- Item 1* a. Southerly Moulton Weir Training Levee
- Item 2* b. Northerly Moulton Weir Training Levee
- Item 3* c. Southerly Colusa Weir Training Levee
- Item 4* d. Northerly Colusa Weir Training Levee
- Item 5* e. Grasshopper Diversion Channel from Grasshopper Creek to South Dry Creek

Levees, a, b, c, and d themselves constitute all of the waterway banks involved. Maintenance of these levees since their construction and the adjoining by-pass areas has been continuously performed by the State as required by Section 8361 of the Water Code of the State of California and Chapter 774, Statutes of California of 1927. Acceptance of these levees has been an actual fact since their construction. Formal acceptance by The Reclamation Board was made December 18, 1951.

Grasshopper Diversion Channel is less than one mile in length and does not constitute a unit capable of single economic maintenance. Formal acceptance will be made upon formal transfer of the south levee of South Dry Creek and the north levee of Bear River east of Reclamation District No. 817, at which time Sections

Items 1 to 5

-2-

District Engineer
April 2, 1952

8400 to 8447 of the Water Code of the State of California, may become operative.

No Federal maintenance of this channel has been done and none is required.

Yours very truly,

THE RECLAMATION BOARD

By 

A. M. BARTON

Chief Engineer and General Manager

AMB:FK

cc: Chief of Engineers
Washington, D. C.

Division Engineer
South Pacific Division
Corps of Engineers, U. S. Army
P.O. Box 3339, Rincon Annex
San Francisco 19, California

State Engineer
Sacramento

Items 1 to 5

REGISTERED MAIL
Return Receipt
Requested

SPKKO-P 824-3 (Sac. Riv. FCP)

2 OCT 1952

10/2/52

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

Gentlemen:

Reference is made to District Engineer letter dated 3 September 1952, wherein it was suggested that a joint inspection be made for the purpose of transferring to the jurisdiction of the State of California, when completed, various levee units of the Sacramento River Flood Control Project. Reference is also made to joint inspections of these units of work which were made on 18 July and 11 September 1952.

In accordance with the above, you are hereby advised that the units listed below, which are covered under Specification No. 1636, Drawing No. 50-4-2897, have been completed as follows:

Part "F" - Levees protecting the City of Marysville:

1. Levee and patrol road along the left bank of Nigger Jack Slough, also known as "Simmerly Slough", from the Western Pacific Railroad to the Feather River at Marysville, California, completed 24 September 1952.

147

2. Levee and patrol road along the left bank of the Feather River and the right bank of the Yuba River, from Nigger Jack Slough to "D" Street Bridge at Marysville, California, completed 24 September 1952.

147

Part "G" and "H" - Westerly Levee of the Feather River:

1. Levee and patrol road along the right bank of the Feather River, from 5th Street bridge, Yuba City, upstream 1400 feet, at Yuba City, Sutter County, California, completed 5 September 1952.

144

Concurrent	
Originator	
Date: 30	
Exec. O	2
Chief	
Ad. Asst.	2
Chf. Tech	
Asst.	
to neg.	
1952.	
Svcs.	
Oper.	
Eng's	
R. E.	
Plnc.	
Pers.	
Legal	
Supply	

Levee sections 352 to 362
Letter No. 37
36

SPEKO-P
The Reclamation Board

143
2. From Station 0+00 to 172+70, levee and patrol road along the right bank of the Feather River, from Niclaus Bridge upstream approximately 3.31 miles, near Niclaus, Sutter County, California, completed 24 September 1952.

Part "I" - Southerly Levee of Bear River:

From Station 46+80 to 343+70, levee and patrol road along the left bank of Bear River from a point 5,400 feet upstream from Carlin Bridge upstream to high ground, near Wheatland, Yuba County, California, completed 8 September 1952. 141.1

Part "J" and "K" - Southerly and Northerly Levees of Yankee Slough:

1. From Station 316+70 to 511+10, levee and patrol road along the left bank of Yankee Slough, from the W.P.R.R. upstream to high ground, near Rio Oso, Sutter County, California, completed 24 September 1952. 141.1

2. From Station 166+70 to 536+09, levee and patrol road along the right bank of Yankee Slough, from its junction with Bear River upstream to high ground, completed 16 September 1952. 141.1

Part "L" - Southerly Levee of South Dry Creek and Easterly and Westerly Levees of Grasshopper Diversion Channel:

1. From Station 98+45 to 671+28, levee and patrol road along the left bank of South Dry Creek Channel, from a point 1.86 miles upstream from Bear River to the westerly levee of Grasshopper Diversion Channel, near Wheatland, California, completed 8 September 1952. 146

2. From Station 377+60 to 418+16, levee and patrol road along the left bank of South Dry Creek, from the easterly levee of Grasshopper Diversion Channel upstream approximately 4056 feet, near Wheatland, California, completed 8 September 1952. 146

3. From Station 0+00 to 25+69, levee and patrol road along the westerly bank of Grasshopper Diversion Channel, from the southerly levee of South Dry Creek upstream approximately 2569 feet near Wheatland, California, completed 8 September 1952. Station 25+69 corresponds to Station 390+20 shown on drawing. 146

4. From Station 0+00 to 13+85, levee and patrol road along the easterly bank of Grasshopper Diversion Channel from the southerly levee of South Dry Creek upstream approximately 1385 feet, near Wheatland, California, completed 8 September 1952. 146

SPKKO-P
The Reclamation Board

The levee units referred to above, together with the patrol roads thereon, form an integral part of the Sacramento River Flood Control Project and meet with the requirements of the project. Therefore, said levee units, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations 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 No. 208.10 (10) of these regulations, a maintenance manual covering these levee units 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.

FOR THE DISTRICT ENGINEER:

Copy furnished:
State Engineer,
✓ Dept. of Public Works
1120 "N" St., Sacto, Calif.

cc: ✓ Office of C. of E.
✓ So. Pac. Div. Eng.
✓ Eng. Div.
✓ Sacto Field Office
✓ C. deArrieta
✓ Service Section

Sincerely yours,

Earl C. Peacock
Lt. Col., Corps of Engineers
Executive Officer

COPY

1

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA
1100 O Street
Sacramento, California

December 3, 1952

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

Dear Sir:

Reference is made to your SPKKO-P 824-3 (Sac. Riv. FCP) dated 2 Oct 1952, transferring certain completed levee units, together with the patrol roads thereon and with the waterway banks contiguous thereto, to the State of California for operation and maintenance.

The Reclamation Board at its meeting December 21, 1952, accepted said levee units on behalf of the State of California.

The units so accepted are:

Part "F" - Levees protecting the City of Marysville:

1. Levee and patrol road along the left bank of Nigger Jack Slough, also known as "Simmerly Slough", from the Western Pacific Railroad to the Feather River at Marysville, California, completed 24 September 1952.

111-A
= 352

147

2. Levee and patrol road along the left bank of the Feather River and the right bank of the Yuba River, from Nigger Jack Slough to "D" Street Bridge at Marysville, California, completed 24 September 1952.

112-A
= 353

147

Part "G" and "H" - Westerly Levee of the Feather River:

1. Levee and patrol road along the right bank of the Feather River, from 5th Street bridge, Yuba City, upstream 1400 feet, at Yuba City, Sutter County, California, completed 5 September 1952.

113-A
= 354

144

17

2. From Station 0+00 to 172+70, levee and patrol road along the right bank of the Feather River, from Nicolaus Bridge upstream approximately 3.31 miles, near Nicolaus, Sutter County, California, completed 24 September 1952.

114-A
= 355

143

Acceptance
Units 111-A
to 121-A
= 352 to 362

12/3/52

824.3 (Sac. R. FCP) SPK

-2-
District Engineer
December 3, 1952

Part "I" - Southerly Levee of Bear River:

From Station 46+80 to 343+70, levee and patrol road along the left bank of Bear River from a point 5,400 feet upstream from Carlin Bridge upstream to high ground, near Wheatland, Yuba County, California, completed 8 September 1952.

115-A
= 356

141.1

Part "J" and "K" - Southerly and Northerly Levees of Yankee Slough:

1. From Station 316+70 to 511+10, levee and patrol road along the left bank of Yankee Slough, from the W.P.R.R. upstream to high ground, near Rio Oso, Sutter County, California, completed 24 September 1952.

116-A
= 357

141.1

2. From Station 166+70 to 536+09, levee and patrol road along the right bank of Yankee Slough, from its junction with Bear River upstream to high ground, completed 16 September 1952.

117-A
= 358

141.1

Part "L" - Southerly Levee of South Dry Creek and Easterly and Westerly Levees of Grasshopper Diversion Channel:

1. From Station 98+45 to 671+28, levee and patrol road along the left bank of South Dry Creek Channel, from a point 1.86 miles upstream from Bear River to the westerly levee to Grasshopper Diversion Channel, near Wheatland, California, completed 8 September 1952.

118-A
= 359

146
↓

2. From Station 377+60 to 418+16, levee and patrol road along the left bank of South Dry Creek, from the easterly levee of Grasshopper Diversion Channel upstream approximately 4056 feet, near Wheatland, California, completed 8 September 1952.

119-A
= 360

3. From Station 0+00 to 25+69, levee and patrol road along the westerly bank of Grasshopper Diversion Channel, from the southerly levee of South Dry Creek upstream approximately 2569 feet near Wheatland, California, completed 8 September 1952. Station 25+69 corresponds to Station 390+20 shown on drawing.

120-A
= 361

4. From Station 0+00 to 13+85, levee and patrol road along the easterly bank of Grasshopper Diversion Channel from the southerly levee of South Dry Creek upstream approximately 1385 feet, near Wheatland, California, completed 8 September 1952.

121-A
= 362

↑
146

SAH:emw

Very truly yours,
THE RECLAMATION BOARD
A.M. BARTON
Chief Engineer and General Manager

/s/S.A. Honaker,
ASST. Secretary

SPKGO-C

24 October 1963

Suppl #1

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

Gentlemen:

Reference is made to the joint inspection made on 21 October 1963, of flood control work pertaining to the Sacramento River Flood Control Project for the purpose of transferring it to the State of California for operation and maintenance. Reference is also made to Supplement dated 29 November 1957 to Memorandum of Understanding entered into with the State of California under date of 30 November 1953, covering added items of work required to complete the Sacramento River Flood Control Project.

The flood control work consists of levee construction on right and left banks of Bear River, W.P.R.R. Interceptor Channel, and Yankee Slough, designated in the above referenced supplement as Items 100-16, 100-18, 100-19, 100-21, and 100-24. This work was completed on 18 October 1963, in accordance with Specification No. 2792, Contract No. DA-04-167-CIVENG-63-28, and Drawing No. 2-4-174.

The foregoing supplemental work having been completed to current standards for the Sacramento River Flood Control Project, is hereby transferred to the State of California for operation and maintenance. A manual for this portion of the project has already been furnished which adequately covers operation and maintenance requirements for the above item.

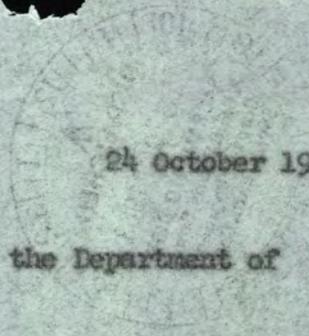
It is also to be noted that the above work completes all of Bear River flood control work under the Sacramento River Flood Control Project.

Clm 7 145, 146

REGISTERED
RETURN RECEIPT REQUESTED

Supp of 29 Nov 57

Suppl



SPIGKO-C
The Reclamation Board

24 October 1963

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

Sincerely yours,

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

Copy furnished:
Dept Water Resources

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

cc: Engr Div-Lev & Channels
Engr Div - Prog Dev Br
F & A
Northern Area Office

[Signature]
THOMPSON/ pnp
[Signature]
HARDY
[Signature]
TEAGLE

Unit # 101

aw

THE RECLAMATION BOARD

1215 O STREET • SACRAMENTO 95814



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

December 16, 1963

Refer to: 7001.70.607

Cont # 63-22

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

Dear Sir:

Reference is made to your letter of October 24, 1963, concerning transfer to the State of California of levee construction on the right and left banks of the Bear River, Western Pacific Railroad Interceptor Canal and Yankee Slough, designated in the Supplement to the Memorandum of Understanding as items 100-16, 100-18, 100-19, 100-21 and 100-24. This work was completed under Specification No. 2792.

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

Sincerely yours,

A E McCollam per [signature]
A. E. McCOLLAM
General Manager

HSH:gg

12/23/63

*Copies sent to -
Barsdale
Jensen
Northern Area CFC*

Unit 145, 146

THE RECLAMATION BOARD

1416 - 9TH STREET ● SACRAMENTO 95814



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HAROLD J. O'BANION
MAX S. VANN, SR.
DONALD L. WEILER
COL. A. E. McCOLLAM, *General Manager*

APR 21 1965

Refer to: 7001.70.104
4130.70.104

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

Dear Sir:

Reference is made to your letter of 23 August 1962, concerning transfer to the State of California of levee enlargement and surfacing of patrol road, right bank Bear River, Carlin Bridge to high ground, from Engineers Station 261.50 to Engineers Station 351.00 and from Engineers Station 261.50 to high ground, in accordance with Specification No. 2739.

The Reclamation Board at its meeting of April 15, 1965, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A. E. McCOLLAM
General Manager

JHMacC:gg

4/27/65
Copies sent to
Bardsale
Jensen
Valley

20 June 1966

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

Gentlemen:

Reference is made to the joint inspection of 14 June 1966, made for the purpose of transferring a portion of the Sacramento River Bank Protection work, upon completion, to the State of California for operation and maintenance.

The flood control work, consisting of levee enlargement, levee set-back, bank sloping and placement of bank protection at: Sacramento River, Site Mile 77.6, left bank; Feather River, Site Mile 24.5, right bank; and Bear River, Site Miles 1.76 & 2.98, right bank and 4.90, 7.12 and 11.6, left bank; as listed on the attached inclosure. Work was completed on 14 June 1966, in accordance with Specification No. 3154, Contract No. DA-Or-167-CIVENG-66-50, Drawing No. 50-4-4004.

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

The flood control work now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood control work is transferred to the State of California for operation and maintenance.

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

Sincerely yours,

T. S. MEADE
Lt. Col., CE
Acting District Engineer

REGISTERED

RETURN RECEIPT REQUESTED

cc: Lev & Chan; Prog Dev;
Valley Res; F&A-Cordano

Copy furnished:

Dept Water Resources

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

*Units 1241-1,
1244, 1246*

OK
COLEMAN/P
HENSON
[Signature]

MEADE M

OK

en

*✓ 1 Incl
Listing*

✓
✓

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT

LEVEE UNIT SITE MILE	<u>SACRAMENTO RIVER</u>								RIGHT OR LEFT BANK	
	<u>LEVEE ENLARGEMENT</u>	<u>LINEAL FEET</u>	<u>ROCK TOEWALL</u>	<u>LINEAL FEET</u>	<u>BANK SLOPING</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION</u>	<u>LINEAL FEET</u>		
77.6	0+60to4+65	405	0+00to3+50	350	0+60to4+65	405	0+00to5+00	500	Left	<i>Unit 141.1</i>
					<u>FEATHER RIVER</u>					
24.5					2+00to24+00	2200	2+00to24+00	2200	Right	<i>Unit 144</i>
					<u>BEAR RIVER</u>					
1.76					0+23to3+50	327	0+23to3+50	327	Right	<i>146</i>
2.98					306+00to321+00	1500	306+00to321+00	1500	Right	
4.90					5+28to17+00	1172	2+50to17+00	1450	Left	
	<u>LEVEE SETBACK</u>		<u>LEVEE SURFACING</u>							<i>141.1</i>
7.12	1+00to13+00	1200	1+00to13+00	1200	1+00to13+00	1200	1+00to13+00	1200	Left	
	<u>LEVEE ENLARGEMENT</u>									
11.6	4+00to10+00	600	4+00to10+00	600	0+00to10+00	100	0+00to10+00	1000	Left	

THE RECLAMATION BOARD

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*

JUN 28 1966

Refer to: 4130.60.302
 Contract 66-50

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

Dear Sir:

Reference is made to your letter of June 20, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 8, Site Mile 77.6, left bank, Sacramento River; Site Mile 24.5, right bank, Feather River; Sites Mile 2.98 and 1.76, right bank, Bear River; and Sites Mile 11.6, 7.12 and 4.90, left bank, Bear River, in accordance with Specification No. 3154.

The Reclamation Board, at its meeting of June 23, 1966, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

JHMacC:pa

*Copies sent to
 Bardsdale
 Jensen
 Valley*

*Units 141.1,
 141.2, 141.6*

20 October 1970

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

Gentlemen:

Reference is made to the joint inspection of 24 September 1970 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project work (Unit #18), to the State of California for operation and maintenance.

The flood control work consists of bank sloping and placement of stone protection, as follows:

<u>WATERWAY</u>	<u>BANK</u>	<u>SITE LEVEL MILE</u>
Feather River	Right	4.25
	Left	10.60
South Dry Creek	Left	1.30, 2.00 and 3.50
Bear River	Right	2.50 and 3.85
	Left	4.28 and 4.60

A list covering the completed work is inclosed. The work was completed on 24 September 1970 in accordance with Specification No. 3426, Contract No. DACW05-70-C-0088, Drawing No. 50-4-4377. 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 24 September 1970 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 141 Part 1, 146 and 152,

Unit 141, 146, 152

to Osburn & Huber 21 Oct 70

SPKCO-0
The Reclamation Board

20 October 1970

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

Sincerely yours,

1 Incl (in dupe)
List

JAMES H. HIGMAN
Lieutenant Colonel, CE
Acting District Engineer

Copy furnished:
DWR, ATTN: John Wright

OCE
SPD

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

Wait
WAIT/pp

Coleman
COLEMAN

Anderson
ANDERSON

Hart
HART

Higman
HIGMAN

*Unit 141.1.14 61
152*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION
 UNIT #18 - FEATHER RIVER,
 SOUTH DRY CREEK & BEAR RIVER

FEATHER RIVER:
SITE LEVEE MILE

<u>SITE LEVEE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOE WALL</u>	<u>L.F.</u>
4.25 Rt.	1+25 to 13+50	1225	2+50 to 3+50	100
10.60 Lt.	10+00 to 20+65	1065		

SOUTH DRY CREEK:

1.30 Lt.	20+19 to 25+95	576		
	26+18 to 38+00	1182		
2.00 Lt.	1+00 to 6+00	500		
3.50 Lt.	124+00 to 140+00	1600		

BEAR RIVER:

4.60 Lt.	17+00 to 0+55	1645		
4.28 Lt.	0+00 to 4+00	400		
3.85 Rt.	259+25 to 265+65	640		
2.50 Rt.	331+35 to 338+00	665		

Unit #18 - 1/14/61 - 157

C
O
P
Y

THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
O
P
Y

27 October 1970
Refer to: 4130.60.403
Contract 70-C-0088

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

Dear Sir:

Reference is made to your letter of October 20, 1970, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project for maintenance and operation. The transferred sites were as follows:

<u>Waterway</u>	<u>Bank</u>	<u>Site Levee Mile</u>
Feather River	Right	4.25
	Left	10.60
South Dry Creek	Left	1.30, 2.00 and 3.50
Bear River	Right	2.50 and 3.85
	Left	4.20 and 4.60

This work was constructed in conformance with Specification No. 3426, Contract No. DACW05-70-C-0088, Drawing No. 50-4-4377 and is a portion of the work to be done on Unit No. 18.

The Reclamation Board at its meeting of October 23, 1970, formally accepted the above-referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 20, 1967

Navigation and Flood Control Unit

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

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to project levees under authority of Section 3 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 8, 1966, and consisted of restoring a portion of the Yankee Slough and Natomas Cross Canal right bank levees in Reclamation Districts 1001 and the Bear River right bank levee in Reclamation District 817, in accordance with Contract Number DACW93-86-C-0107 and Drawing Number EE-4-14. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Flood Control Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 141, 142 and 143, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Love

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

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

Copies furnished:

DIR, ATTN: J. Angel
DIR, ATTN: G. Saw
Commander, South Pacific Division, ATTN: SPDCO-O

M-1-15
PUMPALA/jg

RK
KELLY

AS
A. SMITH

H
HUNT

J
FAST

J
DENNIS

McCOLLAM

SCHOLL

WJ
WANG #6284a

*Unit 51/41/1/421
146*

*BEAR R. R.B IN RD817
YANKEE SL & NATOMAS CROSS CANAL R.B RD1001*

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

EXHIBIT G

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__) Unit No. 146 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 12.0 on the gage at U. S. Highway Bridge crossing the Bear River).

<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:

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

TOTAL

Respectfully submitted,

Superintendent of Works