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

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U. S. ARMY ENGINEER DISTRICT, SACRAMENTO
Corps of Engineers
Sacramento, California
November 1962
### SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
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SUPPLEMENT TO STANDARD
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UNIT NO. 146
NORTH LEVEE OF BEAR RIVER
AND
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R.D. NO. 817 AND VICINITY OF WHEATLAND

SECTION I
INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project levees 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 plans 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:

da. Raising of the south levees of South Dry Creek was accomplished under Contract No. W-1105-eng-2093 by Morrison & Knudsen Company, contractor and completed on 19 August 1938. Drwg. 2-4-55

db. 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. Drwg. 2-4-106

dc. Levee construction on the right bank of the Bear River from Carlin Bridge to high ground was accomplished under Contract No. DA-04-167-GIVEN-62-61 by H. Earl Parker, Inc. during the period from 2 April 1962 to 20 August 1962. Spec. 2739 Drwg. 2-4-165

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 99 bridge, 1 mile southeast of Wheatland, California (zero on this gage is approximately 76.9 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 1520, 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 (Titile 33), and reports its findings to the local agency, the State Reclamation Board and the Sacramento

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.

g. PL84-99 Emergency Levee Repairs on the right bank of Yankee Slough upstream of Swanson Road were accomplished under Contract No. DACW05-86-0107 by Ford Construction Company, Inc., during the period from 20 September 1986 to 13 November 1986 (Ref. Drawing File No. BE-4-14, sheets 1 & 2, and Specification No. 8010). Federal cost, which included levee repairs on Bear River and Natomas Cross Canal, totaled $212,997.18.

h. PL 84-99 Emergency Levee Repairs at two sites near the intersection of Jasper Lane and Dry Creek, northeast of Wheatland, CA. Site 1 (20051230-036-001), an 1190-foot-long eroded riverbank, was reconstructed to 1(V) on 1(H) slope to assure stability of levee waterside slope. Site 2 (20051230-036-002), a 200-foot-long by 50-foot-wide underseepage berm, was constructed on the landside toe and centered on a seepage/sand boil area. Construction was completed at both sites on December 8, 2006, Specification No. 1137E, Drawing No. 4-04-636, under Contract No. W91238-04-D-0002, TO 0005.
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:

<table>
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<th>Levee</th>
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<td>Mile</td>
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<td>0.28</td>
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**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:

2. Suggested Check Lists - EXHIBIT E of this Supplement 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:


(2) Suggested Check Lists - EXHIBIT E of this Supplement 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:


(2) Suggested Check Lists - paragraph 7-03 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.

Revised
EXHIBIT A

FEDERAL FLOOD CONTROL REGULATIONS

(SEE STANDARD MANUAL)
LOCATION MAP
UNIT NO. 146
NORTH LEVEE OF BEAR RIVER AND SOUTH LEVEE OF SOUTH DRY CREEK
R.D.NO. 817 & VICINITY OF WHEATLAND

EXHIBIT A-1
EXHIBIT B

“AS CONSTRUCTED”
DRAWINGS

See separate folder for the following drawings:

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<th>FILE NO.</th>
<th>TITLE</th>
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<td>2-4-55-1</td>
<td>Proposed Work Along South Dry Creek Lateral from Bear River to Horstville, in 9 sheets.</td>
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<tr>
<td>2-4-106</td>
<td>Bear River Levees from W.P.R.R. Upstream 4 Miles, South Dry Creek Levees Upstream from Mouth 2 Miles, in 6 sheets.</td>
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<tr>
<td>2-4-165</td>
<td>Right Bank Bear River Vicinity of Carlin Bridge to High Ground, in 14 sheets.</td>
</tr>
<tr>
<td>2-4-174</td>
<td>Levee Construction, Right and Left Banks Bear River W.P.R.R. Interceptor Channel and Yankee Slough, in 22 sheets.</td>
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<tr>
<td>4-04-636</td>
<td>PL 84-99 Erosion and Seepage Rehabilitation Protection Project SN 18 / RD 2103, in 4 Sheets</td>
</tr>
<tr>
<td>50-4-4377</td>
<td>Bank Protection, Various Locations on Bear River and Feather River, Elder and South Dry Creek, in 14 Sheets. (Unit No. 18)</td>
</tr>
</tbody>
</table>
EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(SEE STANDARD MANUAL)
EXHIBIT D

SUGGESTED CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(SEE STANDARD MANUAL)
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__________________

<table>
<thead>
<tr>
<th>Item</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>(a) Location by Station</td>
<td></td>
</tr>
<tr>
<td>(b) Settlement, sloughing, or loss of grade</td>
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</tr>
<tr>
<td>(c) Erosion of both levee slopes</td>
<td></td>
</tr>
<tr>
<td>(d) Condition of roadways, including ramps</td>
<td></td>
</tr>
<tr>
<td>(e) Evidence of seepage</td>
<td></td>
</tr>
<tr>
<td>(f) Condition of farm gates and fencing</td>
<td></td>
</tr>
<tr>
<td>(g) Maintenance measures taken since last inspection</td>
<td></td>
</tr>
<tr>
<td>(h) Comments</td>
<td></td>
</tr>
</tbody>
</table>
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 gullying of the section has occurred.

Item (c) If sufficient erosion or gullying 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

EXHIBIT E
Sheet 4 of 9
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 theainter 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.
<table>
<thead>
<tr>
<th>Inspector's Report Sheet No.</th>
<th>Date</th>
<th>Unit No. 1 - South Levee South Dry Creek Within R.D. 817</th>
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</thead>
<tbody>
<tr>
<td>Inspector</td>
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<tr>
<td>Superintendent</td>
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<td></td>
</tr>
<tr>
<td>(a) Location by levee</td>
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<td>0.28 1.04 1.34 1.58 2.69 2.84 3.43</td>
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<td>(b) Bank</td>
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<td>(c) Debris or other</td>
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<tr>
<td>(d) Damage or settlement</td>
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<tr>
<td>(e) Condition of right-of-way</td>
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<tr>
<td>(f) Condition of concrete</td>
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<tr>
<td>(g) Repair Measures</td>
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<td>(h) Comments</td>
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**SUGGESTED CHECK LIST NO. 4**

**DRAINAGE AND IRRIGATION STRUCTURES**

**UNIT NO. 146**

Inspector's Report Sheet No. ____________

<table>
<thead>
<tr>
<th>(a)</th>
<th>(b)</th>
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<th>(d)</th>
<th>(e)</th>
<th>(f)</th>
<th>(g)</th>
<th>(h)</th>
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<td>Damage or settlement of pipe or conduit</td>
<td>Condition of concrete headwall or invert</td>
<td>Condition of right-of-way adjacent to structure</td>
<td>Repair Measures taken since last inspection</td>
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**Unit No. 1 - South Levee South Dry Creek Vicinity of Wheatland**

**Unit No. 2 - North Levee Bear River Within R.D. 817**
**SUGGESTED CHECK LIST NO. 1**

**DRAINAGE AND IRRIGATION STRUCTURES**

**UNIT NO. 146**

<table>
<thead>
<tr>
<th>Inspector's Report Sheet No.</th>
<th>Inspector</th>
<th>Date</th>
<th>Superintendent</th>
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<th>(a) Location by Levee Mileage</th>
<th>(b) Bank</th>
<th>(c) Debris or other obstruction to flow</th>
<th>(d) Damage or settlement of pipe or conduit</th>
<th>(e) Condition of headwall or invert lining</th>
<th>(f) Condition of right-of-way adjacent to structure</th>
<th>(g) Repair measures taken since last inspection</th>
<th>(h) Comments</th>
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</table>

Unit No. 2 - North Levee Bear River - Vicinity of Wheatland
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
Ms. Leslie M. Gallagher  
Executive Officer  
Central Valley Flood Protection Board  
3310 El Camino Avenue, Room 170  
Sacramento, CA 95821

Dear Ms. Gallagher:

The U.S. Army Corps of Engineers completed a portion of work performed under the PL 84-99, Flood Control and Coastal Emergencies (33 U.S.C. 701n) (69 Stat. 186) for emergency management activities. Repairs were made at two different sites to rehabilitate 1190 feet of eroded riverbank, and a seepage and sand boil area with a 200 foot long underseepage berm. The repairs are located within Reclamation District 2103 near the intersection of Jasper Lane and Dry Creek, northeast of Wheatland, California. Additional information about the repairs and location of the sites may be found in the document titled, Project Information Report (PIR) for PL 84-99 Levee Rehabilitation, Reclamation District 2103, dated August 2006.

This work meets the requirements of the existing Operation and Maintenance Manuals (O&M) for the PL 84-99 Rehabilitation Program; and therefore, said flood risk management work is transferred as of the date of this letter to the State of California for operation, maintenance, repair, replacement, and rehabilitation. The repairs were completed by Nordic Industries in accordance with Specification No. 1137E, Drawing No. 4-04-636, Contract No. W91238-04-D-0002, TO 0005. As-constructed drawings and revisions to the O&M manual are enclosed.

If you have any questions regarding this project, please contact Ms. Paige Caldwell, at (916) 557-6919.

Sincerely,

[Signature]

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

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

Dear Ms. Gallagher:

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

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

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

Sincerely,

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

Enclosures
<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Project Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>RD 341 Sherman Island</td>
</tr>
<tr>
<td>102</td>
<td>E. Levee of Sac River, Isleton to Threemile Slough &amp; N. Levee of Threemile Slough from Sac River to SJ River</td>
</tr>
<tr>
<td>103</td>
<td>Both Levees of Georgiana Slough &amp; E. Levee of Sac River from Walnut Grove to Isleton</td>
</tr>
<tr>
<td>104</td>
<td>Levees around Grand Island</td>
</tr>
<tr>
<td>105</td>
<td>Levees Around Reyer Island</td>
</tr>
<tr>
<td>106</td>
<td>S. Levee Lindsey Slough &amp; W. Levee of Yolo BP from Lindsey Slough to Watson Hollow and N. Levee of Watson Hollow Drain</td>
</tr>
<tr>
<td>107</td>
<td>Levees Around Hastings Tract</td>
</tr>
<tr>
<td>108</td>
<td>Levees Around Peters Tract</td>
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<tr>
<td>109</td>
<td>West Levee of Yolo Bypass &amp; E. Levee of Cache Slough</td>
</tr>
<tr>
<td>110</td>
<td>Levees Around Sutter Island</td>
</tr>
<tr>
<td>111</td>
<td>E. Levee of Sac River from Freeport to Walnut Grove</td>
</tr>
<tr>
<td>112</td>
<td>Levees Around Merritt Island</td>
</tr>
<tr>
<td>113</td>
<td>E. Levee Yolo Bypass, N. Levee Miner Slough, W. Levees Sutter Slough, Elkhorn Slough &amp; Sac River, All Bordering RD 999</td>
</tr>
<tr>
<td>114</td>
<td>W. Levee of Sac River from Northern Boundary of RD 765 to Southern Boundary of RD 307</td>
</tr>
<tr>
<td>115</td>
<td>E. Levee of Sac River from Sutterville Rd to Northern Boundary of RD 744</td>
</tr>
<tr>
<td>116</td>
<td>W. Levee of Sac River from Sac Weir to Mi 51.2 &amp; S. Levee of Sac Bypass &amp; E. Levee of Yolo Bypass from Sac Bypass to Southern Boundary of RD 900</td>
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<tr>
<td>117</td>
<td>E. Levee Sac River through City of Sac from Tower Bridge to Sutterville Rd</td>
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<tr>
<td>118.1</td>
<td>E. Levee of Sac River from American River to Tower Bridge &amp; S. Levee of American River from Mayhews Downstream to Sac River</td>
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<tr>
<td>118.2</td>
<td>N. Levee American River, E. Levee Natomas Canal, Both Levees Arcade Creek, S. Levee Linda Creek, &amp; Magpie Creek Diversion Channel</td>
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<td>118.2 Sup</td>
<td>Vegetation on Mitigation Sites E. Levee of Sac River from American River to Tower Bridge &amp; S. Levee of American River from Mayhews Downstream to Sac River</td>
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<td>120</td>
<td>Relocated Willow Slough Channel &amp; Levees &amp; W. Levee Yolo Bypass from mouth of Relocated Willow Slough to Yolo Causeway</td>
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<td>121</td>
<td>R. Levee of Yolo Bypass from Willow Slough Bypass to Woodland Rd RD2035</td>
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<td>122.1</td>
<td>W. Levee of Sac River from Mi 70.8 to Sac Weir &amp; N. Levee of Sac Bypass &amp; E. Levee of Yolo Bypass from Woodland Hwy to Sac Bypass</td>
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<td>W. Levee of Sac River from East End of Fremont Weir to Mi 70.8 &amp; E. Levee of Yolo Bypass from East End Fremont Weir to Woodland Hwy RD 1600</td>
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<td>Description</td>
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<tr>
<td>124</td>
<td>N. Levee of American River from Natomas E. Canal to Sac River &amp; E. Levee of Sac River from Natomas Cross Canal to American River. Includes supplement, Vegetation on Mitigation Sites.</td>
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<td>Back Levee of RD 1000</td>
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<td>126</td>
<td>Cache Creek Levees &amp; Settling Basin Yolo Bypass to High Ground</td>
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<td>Knights Landing Ridge Cut &amp; Sac River &amp; Yolo BP Levees of RD's 730 and 819 &amp; S. Levee of Sycamore Slough</td>
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<td>E. Levee of Sac River from Sutter Bypass to Tisdale Weir all within RD 1500</td>
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<td>S. Levee of Tisdale By-Pass from E. Levee Sac River to W. Levee Sutter BP &amp; W. Levee of Sutter BP Downstream to E. Levee of Sac River</td>
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<td>W. Levee Sac River from Sycamore Slough to Wilkins Slough (Mi. 89.9 to Mi. 117.8)</td>
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<td>Back Levees of RD 108</td>
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<td>E. Levee of Sac River from Winship School to Tisdale BP &amp; N. Levee of Tisdale BP &amp; W. Levee of Sutter BP from Long Bridge to Tisdale BP</td>
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<td>134</td>
<td>Levees of RD 70, E. Levee of Sac River from Butte Slough Outfall Gates to Winship School &amp; W. Levee of Sutter BP from Butte Slough Outfall Gates to Long Bridge</td>
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<td>E. Levee of Sutter BP from Sutter Buttes Southerly to Junction with Feather River &amp; E. &amp; W. Levees of Wadsworth Canal &amp; Levee of Intercepting Canals</td>
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<td>E. Levee of Sac River from Butte Slough Outfall Gates to the Princeton-Afton Rd (Mi. 138.3 to Mi. 164.4)</td>
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<td>W. Levee of Sac River from North End of Princeton Warehouse to Colusa Bridge</td>
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<td>138</td>
<td>E. Levee of Sac River from Parrott-Grant Line to Princeton-Afton Rd</td>
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<td>139</td>
<td>W. Levee of Sac River from N. Boundary of LD 2 to North End of Princeton Warehouse</td>
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<td>W. Levee of Sac River in LD 1 (Mi. 170.5 to Mi. 184.7). Includes mitigation site O&amp;M manual, Yuba County</td>
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<tr>
<td>141.1</td>
<td>E. Levee of Feather River from Bear River to Natomas CC &amp; S. Levee of Bear River &amp; Both Levees of Yankee Slough. Parts 1 and 2</td>
</tr>
<tr>
<td>141.2</td>
<td>E. Levee of Feather River from Bear River to Natomas CC &amp; S. Levee of Bear River &amp; Both Levees of Yankee Slough. Parts 1 and 2</td>
</tr>
<tr>
<td>142</td>
<td>Back Levee of RD 1001</td>
</tr>
<tr>
<td>143</td>
<td>W. Levee of Feather River from North Boundary of RD 823 to E. Levee of Sutter Bypass</td>
</tr>
<tr>
<td>144</td>
<td>W. Levee of Feather River from North Boundary of LD 1 to North Boundary of RD 823</td>
</tr>
<tr>
<td>145</td>
<td>E. Levee of Feather River, S. Levee of Yuba River, Both Levees of WPRR Intercepting Channel, W. Levee of South Dry Creek &amp; N. Levee of Bear River</td>
</tr>
<tr>
<td>146</td>
<td>N. Levee of Bear River &amp; S. Levee of South Dry Creek RD 817 &amp; Vicinity of Wheatland</td>
</tr>
<tr>
<td>147</td>
<td>Levee Around the City of Marysville &amp; N. Levee of Yuba River to a Point 1.8 Mi. Upstream from Marysville</td>
</tr>
<tr>
<td></td>
<td>Description</td>
</tr>
<tr>
<td>---</td>
<td>-------------</td>
</tr>
<tr>
<td>148</td>
<td>W. Levee of Feather River from North Boundary of RD 777 to North Boundary of LD 1</td>
</tr>
<tr>
<td>149</td>
<td>S. Levee of Yuba River Maintenance Area No. 8</td>
</tr>
<tr>
<td>151</td>
<td>E. Levee Feather River from Honcut Creek to Marysville &amp; S. Levee of Honcut Creek &amp; E. Levee of RD 10</td>
</tr>
<tr>
<td>152</td>
<td>W. Levee of Feather River from N. Boundary of RD 777 to Western Canal Intake (Levee of Drainage District No. 1)</td>
</tr>
<tr>
<td>153</td>
<td>Lower Butte Creek Channel Improvement, Colusa, Glenn &amp; Butte Counties</td>
</tr>
<tr>
<td>154</td>
<td>Moulton Weir &amp; Training Levee Sacramento River</td>
</tr>
<tr>
<td>155</td>
<td>Colusa Weir &amp; Training Levee Sacramento River</td>
</tr>
<tr>
<td>156</td>
<td>Tisdale Weir &amp; Bypass</td>
</tr>
<tr>
<td>157</td>
<td>Fremont Weir, Sacramento River</td>
</tr>
<tr>
<td>158</td>
<td>Sacramento Weir, Sacramento River</td>
</tr>
<tr>
<td>159</td>
<td>Pumping Plants No. 1, 2 &amp; 3, Sutter Bypass</td>
</tr>
<tr>
<td>160</td>
<td>Sutter Butte Canal Headgate</td>
</tr>
<tr>
<td>161</td>
<td>Butte Slough Outfall Gates</td>
</tr>
<tr>
<td>162</td>
<td>Knights Landing Outfall Gates, Sacramento River</td>
</tr>
<tr>
<td>Unit No.</td>
<td>Project Name</td>
</tr>
<tr>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>Right Bank Levee of the San Joaquin River &amp; French Camp Slough within RD 404</td>
</tr>
<tr>
<td>2</td>
<td>Right Bank Levee of the San Joaquin River &amp; French Camp Slough within RD 17</td>
</tr>
<tr>
<td>3</td>
<td>North Levee of Stanislaus River &amp; East Levee of the San Joaquin River within RD 2064, 2075, 2094 and 2096</td>
</tr>
<tr>
<td>4</td>
<td>East Levee of San Joaquin River within RD 2031</td>
</tr>
<tr>
<td>5</td>
<td>East Levee of the San Joaquin River Within RD No. 2092</td>
</tr>
<tr>
<td>6</td>
<td>East Levee of the San Joaquin River in RD Nos. 2063 &amp; 2091</td>
</tr>
<tr>
<td>7</td>
<td>West Levee of San Joaquin River &amp; North Levee of Old River RD Nos. 524 &amp; 544</td>
</tr>
<tr>
<td>8</td>
<td>Right Banks of Old River &amp; Salmon Slough Within RD No. 1 &amp; RD No. 2089</td>
</tr>
<tr>
<td>9</td>
<td>Levees Around RD No. 2062 &amp; San Joaquin County Flood Control District Area No.2</td>
</tr>
<tr>
<td>10</td>
<td>West Levee of Paradise Cut RD No. 2058 &amp; SJ County Flood Control District, Area No.2</td>
</tr>
<tr>
<td>11</td>
<td>West Levee of San Joaquin River from Durham Bridge to Paradise Dam Within RD No. 2085 &amp; 2095</td>
</tr>
<tr>
<td>12</td>
<td>West Levee of San Joaquin River From Opposite Mouth of Tuolumne River Downstream to Stanislaus County Line Within RD Nos. 2099, 2100, 2101, &amp; 2102</td>
</tr>
<tr>
<td>13</td>
<td>West Levee of the San Joaquin River in RD No. 1602</td>
</tr>
</tbody>
</table>
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 5 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 8, 1966, and consisted of restoring a portion of the Yankee Slough and Natomas Cross Canal right bank levees in Reclamation District 1001 and the Bear River right bank levee in Reclamation District 217, in accordance with Contract Number DAC05-86-C-0107 and Drawing Number BE-6-16. 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 146, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

cc:
E.M. (Garrett)

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

 Copies furnished:

BEK, ATTN: J. Angel

BEK, ATTN: G. Snow

Commander, South Pacific Division, ATTN: SPDCO-0

CC:

BEAK R. K.B. IN RD817

YANKEE SL & NATOMAS CROSS CANAL  R.B. RD1001
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:

<table>
<thead>
<tr>
<th>Waterway</th>
<th>Bank</th>
<th>Site Levee Mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feather River</td>
<td>Right</td>
<td>4.25</td>
</tr>
<tr>
<td></td>
<td>Left</td>
<td>10.60</td>
</tr>
<tr>
<td>South Dry Creek</td>
<td>Left</td>
<td>1.30, 2.00 and 3.50</td>
</tr>
<tr>
<td>Bear River</td>
<td>Right</td>
<td>2.50 and 3.85</td>
</tr>
<tr>
<td></td>
<td>Left</td>
<td>4.20 and 4.60</td>
</tr>
</tbody>
</table>

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
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:

<table>
<thead>
<tr>
<th>WATERWAY</th>
<th>BANK</th>
<th>SITE LEVER MILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feather River</td>
<td>Right</td>
<td>4.25</td>
</tr>
<tr>
<td></td>
<td>Left</td>
<td>10.60</td>
</tr>
<tr>
<td>South Dry Creek</td>
<td>Left</td>
<td>1.30, 2.00 and 3.50</td>
</tr>
<tr>
<td>Bear River</td>
<td>Right</td>
<td>2.50 and 3.85</td>
</tr>
<tr>
<td></td>
<td>Left</td>
<td>4.28 and 4.60</td>
</tr>
</tbody>
</table>

A list covering the completed work is inclosed. The work was completed on 24 September 1970 in accordance with Specification No. 3428, Contract No. DACWO5-70-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.
SPRKO-6
The Reclamation Board

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

Sincerely yours,

1 incl (in dupe)
List

Copy furnished:
DWR, ATTN: John Wright
OCE
SPD

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

JAMES H. HIGMAN
Lieutenant Colonel, CE
Acting District Engineer
<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear River</td>
<td></td>
</tr>
<tr>
<td>2.50 ft.</td>
<td></td>
</tr>
<tr>
<td>3.85 ft.</td>
<td></td>
</tr>
<tr>
<td>4.28 ft.</td>
<td></td>
</tr>
<tr>
<td>4.60 ft.</td>
<td></td>
</tr>
<tr>
<td>2.00 ft.</td>
<td></td>
</tr>
<tr>
<td>3.50 ft.</td>
<td></td>
</tr>
<tr>
<td>1.30 ft.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Dry Creek</td>
<td></td>
</tr>
<tr>
<td>4.25 ft.</td>
<td></td>
</tr>
<tr>
<td>10.60 ft.</td>
<td></td>
</tr>
<tr>
<td>331' to 336'</td>
<td></td>
</tr>
<tr>
<td>259' to 265'</td>
<td></td>
</tr>
<tr>
<td>171 ft.</td>
<td></td>
</tr>
<tr>
<td>0.00 to 4.00</td>
<td></td>
</tr>
<tr>
<td>640' to 1645</td>
<td></td>
</tr>
<tr>
<td>665'</td>
<td></td>
</tr>
<tr>
<td>1182'</td>
<td></td>
</tr>
<tr>
<td>1065'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feather River</td>
<td></td>
</tr>
<tr>
<td>2014 to 2519</td>
<td></td>
</tr>
<tr>
<td>2618 to 3100</td>
<td></td>
</tr>
<tr>
<td>1040 to 1045</td>
<td></td>
</tr>
<tr>
<td>1.25 to 1.35</td>
<td></td>
</tr>
<tr>
<td>576'</td>
<td></td>
</tr>
<tr>
<td>1225'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone Tiger Wall</td>
<td></td>
</tr>
<tr>
<td>250 to 350</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

**Summary of Sacramento River Main Protection**

**South Dry Creek & Bear River**

*Unit 144.1146.152*
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,

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

EXHIBIT F
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 setback, 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 to 2.90, right bank and 4.90, 7.12 and 11.6, left bank; as listed on the attached enclosure. Work was completed on 14 June 1966, in accordance with Specification No. 3151, Contract No. DA-06-157-CIVENG-66-50, Drawing No. 50-4-4004.

The work was performed under the general authority of the Flood Control Act of 1958, 85th 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

Copy furnished:  
Dept Water Resources  
OCIE  
SPD

RETURN RECEIPT REQUESTED  
cc: Lev & Chan; Frog Dev;  
Valley Res; F&A-Cordano
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
THE RECLAMATION BOARD
of the
STATE OF CALIFORNIA

December 16, 1963

Refer to: 7001.70.607

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 /s/
A. E. McCOLLAM
General Manager

EXHIBIT F
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.H. 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 12 October 1963, in accordance with Specification No. 2792, Contract No. DA-04-167-CIV-53-22, 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.
SPPNO-C
The Reclamation Board

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

Sincerely yours,

[Signature]

F. H. Anderson
Executive Assistant
For and in the temporary absence of
C. R. Traylor
IF 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
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 SPKGO-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 Marys-
ville, California, completed 24 September 1952.

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, Calif-
ornia, completed 24 September 1952.

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.

2. From Station 0+00 to 17+2470, 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.
-2-
District Engineer
December 3, 1952

Part "I" - Southerly Levee of Bear River:

From Station 464+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.

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.F.R.R. upstream to high ground, near Rio Oso, Sutter County, California, completed 24 September 1952.

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.

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

1. From Station 984+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.

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.

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.

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.

Very truly yours,

/s/S.A.Honaker,
THE RECLAMATION BOARD
A.M.BARTON
ASST. Secretary
Chief Engineer and General Manager

SAH: emw
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.

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.

Part "G" and "H" - Westerly Levees 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.
2. From Station 0+00 to 172+70, levee and patrol road along the right bank of the Feather River, from Nicolsa Bridge upstream approximately 3.31 miles, near Nicolsa, Sutter County, California, completed 26 September 1952.

Part "I" - Southerly Levees of Bear River:

From Station 166+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.

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.H.R. upstream to high ground, near Rio Seco, Sutter County, California, completed 26 September 1952.

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.

Part "L" - Southerly Levees 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.

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.

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+30 shown on drawing.

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.
SPXKO-F
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. 203.10 (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.
Eng. Div.
Sacto Field Office
C. deArrieta
Service Section

Sincerely yours,

Earl C. Peacock
Lt. Col., Corps of Engineers
Executive Officer
District Engineer  
Sacramento District  
Corps of Engineers, U. S. Army  
P. 0. 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:

1. Southerly Moulton Weir Training Levee
2. Northerly Moulton Weir Training Levee
3. Southerly Colusa Weir Training Levee
4. Northerly Colusa Weir Training Levee
5. 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 16, 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
-2-
District Engineer
April 2, 1952

§400 to §447 of the Water Code of the State of California, may be-

come operative.

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

Yours very truly,

THE RECLAMATION BOARD

By

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
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 levees 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.

(2) From the State Highway Bridge, 1800 feet toward the San Joaquin River.

(3) From a point 5900 feet toward the San Joaquin River from the State Highway Bridge to a point 5900 feet toward the San Joaquin River from the State Highway Bridge.

(4) From a point 10,600 feet toward the San Joaquin River from the State Highway Bridge to the San Joaquin River.

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

c. Brennan Island levee of Seven Mile Slough and Three Mile Slough from the Plug across Seven Mile Slough southerly to Sacramento River.
d. Easterly levees of the Sacramento River.

1. From a point 23,650 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 21,000 feet downstream from Three Mile Slough.

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.

3. From a point 6,500 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 5,450 feet downstream from Three Mile Slough.

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.

5. From a point 500 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to Three Mile Slough.


9. Mile 14.5 (Junction Point) to Mile 18.0.


13. Mile 18.15 to Mile 18.3. 103.

14. Mile 18.3 to Mile 21.5. 103.


17. Mile 26.5 to Mile 27.65. 111.

18. Mile 27.7 to Mile 28.5. 111.
Easterly levees of the Sacramento River (cont'd)

(19) Mile 23.6 to Mile 24.3.
(20) Mile 29.1 to Mile 29.9.
(22) Mile 30.75 to Mile 31.5.
(23) Mile 31.6 to Mile 32.2.
(24) Mile 32.4 to Mile 34.0.
(25) Mile 33.1 to Mile 34.45.
(26) Mile 34.55 to Mile 34.95.
(27) Mile 35.1 to Mile 35.5.
(28) Mile 35.58 to Mile 35.74.
(29) Mile 35.85 to Mile 36.56.
(30) Mile 36.5 to Mile 36.75.
(31) Mile 36.88 to Mile 37.15.
(32) Mile 37.3 to Mile 37.85.
(33) Mile 38.0 to Mile 38.3.
(34) Mile 39.5 to Mile 39.15.
(36) Mile 40.0 to Mile 40.15.
(37) Mile 40.25 to Mile 40.35.
(38) Mile 40.5 to Mile 40.9.
(39) Mile 41.2 to Mile 41.6.
(40) Mile 41.75 to Mile 42.35.
(41) Mile 42.5 to Mile 43.05.
d. Easterly Levees of the Sacramento River (cont'd)

246 (42) Mile 45.5 to Mile 45.55

247 (43) Mile 45.55 to Mile 46.2

248 (44) Mile 46.5 to Mile 46.55 x D 115

249 (45) Mile 55.5 to Mile 55.55

250 (46) Mile 56.1 to American River x D 118.1

251 (47) West Levee of Sutter Bypass to Mile 87.5

252 (48) Mile 87.5 to Mile 87.6

253 (49) Mile 87.6 to Mile 87.7

254 (50) Mile 87.7 to Mile 88.0 ✓

255 (51) Mile 88.0 to Mile 91.4

256 (52) Mile 91.4 to Mile 91.5

257 (53) Mile 91.5 to Mile 97.5

258 (54) Mile 97.5 to Mile 97.6

259 (55) Mile 97.6 to Mile 102.6 ✓

260 (56) Mile 102.6 to Mile 103.4

261 (57) Mile 103.4 to Mile 104.2

262 (58) Mile 104.2 to Mile 104.7 •

263 (59) Mile 104.7 to Mile 105.6

264 (60) Mile 110.9 to Mile 111.5 ✓

265 (61) At Tisdale Weir ✓ 1510

266 e. Northerly Levees of Mine 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 levees of Yolo Bypass.
f. Wasterly levee of Sutter Slough.
   (1) Mile 26.3 to Mile 26.7.
   (2) Mile 27.05 to Mile 27.2.
   (3) Mile 27.3 to Elkhorn Slough.

h. Wasterly levee of Elkhorn Slough.
   (1) Sutter Slough to Station "A" 431+00.
   (2) Station "C" 429+50 to Station "A" 405+00.
   (3) Station "A" 403+60 to Station "A" 344+75.
   (4) Station "A" 340+75 to Station "A" 326+00.
   (5) Station "A" 70+60 to Station "A" 60+50.

i. Wasterly levee of the Sacramento River.
   (1) Mile 119.2 to Mile 119.7.
   (2) Mile 131.4 to Mile 131.9.
   (3) Mile 153.1 to Mile 155.3.
   (4) Mile 154.0 (Meridian Bridge) to Mile 154.3.
   (5) Mile 154.5 to Mile 140.6.
   (6) Mile 140.6 to Mile 141.3.
   (7) Mile 141.3 to Mile 142.0.
   (8) Mile 142.0 to Mile 142.3.
   (9) Mile 142.3 to Mile 142.7 (Union Oil Co. Wharf).

j. Northerly levee of the American River and the back levee of Reclamation District No. 1000 from Jibboom Street Bridge to El Camino Avenue.
The Reclamation Board

l. Northerly levee of Natomas Cut.

(1) From Sacramento River easterly to a point 1,650 feet easterly from the Garden Highway Bridge.

(2) From a point 2,650 feet easterly from the Garden Highway Bridge to a point 3,250 feet easterly from the Garden Highway Bridge.

m. Southerly levee of North Dry Creek near Wheatland from high ground to the W.P.R.R. Interceptor.

n. Easterly levee of the W.P.R.R. Interceptor from North Dry Creek southerly to Bear River.

o. Northerly levee of Bear River from the W.P.R.R. Interceptor, easterly to South Dry Creek.

p. Northerly levee of South Dry Creek near Wheatland from Bear River easterly to high ground, including the Singh saddle closure levee.

q. Southerly levee of Bear River from the W.P.R.R. easterly to a point 5,400 feet easterly from Carlin Bridge.

r. Southerly levee of South Dry Creek near Wheatland from Bear River easterly 1,866 miles.

s. Northerly levee of Bear River from South Dry Creek easterly to a point 4,000 feet easterly from Carlin Bridge.

The records of this office show that your Board has accepted the levees and/or works covered by Itemsetermined by the state of California for maintenance and operation.

The levees covered by Items a to c inclusive, d(1) to d(15) inclusive, d(17) to d(27) inclusive, d(29) to d(49) inclusive, d(51) to d(53), d(55) to d(59), d(61) to d(65), e(1) to e(10), f to g inclusive, h(1) to h(2), h(4) to h(6) inclusive, and j to l inclusive, above, although complete has not been formally transferred as contemplated by the Project documents.
Accordingly the levee covered by said items, together with the waterway and 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 5 of the Act of Congress approved 22 June 1936, as amended and supplemented. As provided under paragraph 206.10(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,

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

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

FOR THE DISTRICT ENGINEER:
The Reclamation Board
State of California
1100 "O" Street
Sacramento 14, California

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:

1. Southerly Moulton Weir Training levees from Sacramento River southeasterly to the County Road.


3. Southerly Colusa Weir Training levees from Sacramento River easterly to its terminus in Butte Basin.

4. Northerly Colusa Weir Training levees from Sacramento River easterly to its terminus in Butte Basin.

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

The works covered by Items 1 to 5, inclusive, above, although complete have not been formally transferred as contemplated by the Project documents. Accordingly said works, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for maintenance and operation.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing
SPEKA 924.3(Source Div, Co, Re)
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.

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

Sincerely yours,

C. C. Haug
Colonel, Corps of Engineers
District Engineer
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) SPKKD-P 824.3 (Sac. Riv. F.C.P.) 13 December 1951, (2) your letter SPKKD-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
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:

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

NOTE: Only portions pertaining to Unit No. 146 contained in this copy.
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.
A copy of this letter is being transmitted to the Department of Water Resources.

Sincerely yours,

H. N. TURNER
Colonel, CE
District Engineer
EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM
TO: The District Engineer
Sacramento District
Corps of Engineers
1209-8th Street
Sacramento, California

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

Dear Sir:

The semi-annual report for the period (1 May 19__ to 31 October 19__) (1 November 19__ to 30 April 19__) 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).

<table>
<thead>
<tr>
<th>Dates</th>
<th>Maximum Elevation</th>
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<tbody>
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</table>
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:

<table>
<thead>
<tr>
<th>Labor</th>
<th>Material</th>
<th>Equipment</th>
<th>Overhead</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
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</table>

Respectfully submitted,

Superintendent of Works