SUPPLEMENT TO STANDARD OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER
FLOOD CONTROL PROJECT
UNIT NO. 138
EAST LEVEE OF SACRAMENTO RIVER
FROM
PARROTT-GRANT LINE TO PRINCETON-AFTON ROAD

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

SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL

SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 138

EAST LEVEE OF SACRAMENTO RIVER
FROM
PARROTT GRANT LINE TO PRINCETON-AFTON ROAD

 Sacramento District
Corps of Engineers
U.S. Army
July 1955
**LOCATION** | **ADDITION OR REVISION** | **DATE**
--- | --- | ---
1-04 | Add subparagraph d | Sep 1977
2-05 | Add subparagraph a & b (page 6) | Sep 1977
Exhibit B | Add drawing no. 50-4-4892 | Sep 1977
Exhibit F | Add copy of letter of acceptance dated 26 Nov 1975 | Sep 1977
1-04 | Add subparagraph e | Nov 1983
Exhibit B | Add drawing no. 50-4-5438 | Nov 1983
Exhibit F | Add copy of letter of transfer dated 10 Dec 1981 | Nov 1983
1-04 | Add subparagraph f | Jan 1985
Exhibit B | Add drawing no. 50-4-5601 | Jan 1985
Exhibit F | Add copy of letter of transfer dated 11 May 1984 | Jan 1985
1-04 | Add subparagraph g | Sep 1990
Exhibit B | Add drawing no. 50-4-5758 | Sep 1990
Exhibit F | Add copy of letter to transfer dated 21 Dec 1987 | Sep 1990
1-04 | Add subparagraph h | 6 May 2010
Exhibit B | Add drawing no. A-10-4-7 | 6 May 2010
Exhibit F | Add copy of letter of transfer dated 18 Apr 2001 | 6 May 2010
Exhibit F | Add copy of letter of acceptance (no date) referencing transfer dated 18 Apr 2001 | 6 May 2010
Exhibit F | Add copy of letter of transfer dated 8 Dec 1951 | 27 Dec 2010
Exhibit F | Add copy of letter of transfer dated 22 Jul 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
1-04 | Add subparagraph i | 27 Dec 2010
Exhibit B | Add drawing no. 50-4-5774 | 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 10 Nov 1975 | 8 Mar 2011
Exhibit F | Add copy of letter of acceptance dated 31 Dec 1981 | 8 Mar 2011
1-04 | Add subparagraph j | 8 Mar 2011
Exhibit B | Add drawing no. 50-4-5712 | 8 Mar 2011
1-04 | Add subparagraph k | 8 Mar 2011
Exhibit B | Add drawing no. 50-4-5723 | 8 Mar 2011
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<td>15 Aug 2013</td>
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<td>29 Dec 2016</td>
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*(Added Sep 77)*
SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER FLOOD CONTROL PROJECT
UNIT NO. 138

EAST LEVEE OF SACRAMENTO RIVER
FROM
PARROTT GRANT LINE TO PRINCETON-AFTON ROAD

SECTION I

INTRODUCTION

101. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project which includes the east levee of the Sacramento River from Parrott Grant Line to Princeton-Afton Road. The low water channel of the Sacramento River meanders through a leveed overflow area about one mile in width. The levee of this unit lies within Levee District No. 3, in Glenn County, California, and in the general vicinity of the town of Butte City. The location of the completed unit covered by this manual is shown on Exhibit A-1.

1-02. Protection Provided. The levee of Unit No. 138 provides protection to adjacent agricultural land and the town of Butte City against flood waters of the Sacramento River and is an essential feature of the Sacramento River Flood Control Project. The grade of the adopted flood plane profile in the Sacramento River varies from elevation 106.3 at Parrott Grant Line to elevation 93.6 at the Princeton-Afton Road. (Elevations are referred to Corps of Engineers datum). The levee project grade along the Sacramento River provides a freeboard which equals or exceeds 3 feet and the project design capacity is 160,000 cubic feet per second within this unit.

1-03. Project Works. The project works covered by this manual includes the east levee of the Sacramento River extending from a point located about 2,000 feet upstream from the south boundary of Parrott Grant Line southerly (downstream) 9.0 miles to the Princeton-Afton Road, as constructed by local interests and as enlarged and/or setback by the Corps of Engineers to adopted grade and section. The approximate river mileage is from mile 176.5 to mile 164.4.

1-04. Construction Data and Contractor. Unit No. 138 of the flood control works described in this manual forms an integral part of the Sacramento River Flood Control Project. In general, all construction features are based on standard plans and specifications, details being
fully covered in the drawing (See Exhibit B).

Construction work required to bring locally built levees to project grade and section was accomplished under the following contracts:

a. Bank protection work at miles 168.6 and 168.9 was completed in 1940 under Job order No. 201. Drw. 6-4-1464

b. Levee enlargement of east levee along Sacramento River from Princeton-Butte City Road to Parrott Grant Line was constructed under Contract No. W-1105-eng-2840 by Paulos & McEven, contractors, and completed on 19 July 1941. Drw. 50-4-1716

c. Surfacing of levee crown for patrol road purposes within this unit was constructed under contract No. DA-04-167-eng-828 by Browne ad Krull, contractor, during the period from 16 July 1952 to 2 December 1952. Drw. 50-4-2897

d. Bank protection and selective clearing on the left bank of the Sacramento River at Site Miles 187.4, 189.5 and Left bank of Murphy Slough (Unit No. 27) was accomplished under Contract No. DACW05-75-C-0085 by Luhr Bros. Inc. during the period from 21 July 1975 to 15 October 1976. Specification No. 4461, Drawing No. 50-4-4892.

e. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Mile 168.4 L (a portion of Unit 35) was accomplished under Contract No. DACW05-81-C-0036 by Francis Construction, Inc. Construction was completed on 18 November 1982. Specification No. 5472, Drawing No. 50-4-5438.

f. Emergency repairs to project levees at Murphy Slough were accomplished under Contract No. DACW05-83-C-0036/DACW05-84-C-0036 by Kemen and Son, Inc. Specification No. 6892/6894, Drawing No. 50-4-5601.

g. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 156.1 L, 159.3 L, and 159.8 L (a portion of Contract 40A) was accomplished under Contract No. DACW05-86-C-0046 by K2B Contractors, Inc. Specification No. 7875, Drawing NO. 50-4-5758.

h. Emergency repair (PL 84-99) of damaged rock revetment sites along left bank of Sacramento River at River Miles 186.78-186.87, 186.83-187.00, 189.05-189.30, and 189.57-189.65, Butte Basin Maintenance Area, was accomplished under Contract No. DACW05-98-C-0055 by Zerimar, contractor. Construction was completed on 28 September 1998. Specification No. 9960E, Drawing No. A-10-4-7.

i. Emergency repairs consisting of restoration of bank protection at three sites along the left bank of Sacramento River, Mile 187.1, was completed on 10 Nov 1986 under Contract No. DACW05-86-C-0114. Drawing No. 50-4-5774.
j. Bank sloping, stone protection and levee setbacks on the left bank of the Sacramento River, Site Mile 192.6, was accomplished under Contract No. DACW05-84-C-0112. Specification No. 7053, Drawing No. 50-4-5712.

k. Bank sloping and stone protection along the left bank of the Sacramento River, Site Miles 178.5 and 187.1 (Sites 1 and 2) was accomplished under Contract No. DACW05-85-C-0059. Specification No. 7377, Drawing No. 50-4-5723.

l. Channel clearing in the Sacramento River at various sites, between Colusa and Butte City, was accomplished under contract no. DA-04-167-CIVENG-63-59, Specification No. 2775, Drawing No. 6-6-2059 and was completed on 18 October 1963.

1-05. Flood Flows. For purposes of this manual, the term “flood” or “high water period” shall refer to flows when the water surface reaches or exceeds a reading of 89.0 on the continuous water stage recorder and staff gage located on the left bank of the Sacramento River about 200 feet upstream from the State Highway Bridge near Butte City. (Staff gage is set on U.S. corps of Engineers datum).

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

1-07. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining the completed works was officially accepted by the Reclamation Board of the State of California on 18 February 1953, and 4 March 1953, as shown on the attached letters of acceptance, Exhibit F.

1-08. Superintendent. The name and address of the Superintendent appointed by local interests to be responsible for the continuous inspection, operation and maintenance of the project works shall be furnished the District Engineer, and in case of any change of Superintendent, the District Engineer shall be so notified.
SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees

a. Description. The levee described in this manual is located along the easterly side (left bank) of the Sacramento River from Parrott Grant Line to Princeton-Afton Road. The existing levee of this unit has been rebuilt to adopted grade and section by new construction. Crushed rock surfacing was applied to the crown of the levee, as indicated on Drawing No. 50-4-2897, sheets 1, 2 and 4 of Exhibit B. Required turnouts and road approaches were also provided. For more complete detail of items included in construction of above mentioned levee, 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 located and described as follows:

(Stations as shown on drawings of Exhibit B)

<table>
<thead>
<tr>
<th>Location Station</th>
<th>Size and Kind of Pipe</th>
<th>Gate Model No.</th>
<th>Other Structure Description</th>
<th>Elev. of invert at pipe</th>
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<tbody>
<tr>
<td>1129+75</td>
<td>14&quot; steel</td>
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<td>Pump R.S., concrete spillbox L.S.</td>
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<tr>
<td>1142+10</td>
<td>10&quot; C.M.P.</td>
<td>100</td>
<td>Concrete saddle and apron 1 - iron cutoff plate</td>
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<tr>
<td>1148+70</td>
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<tr>
<td>1149+00</td>
<td>10&quot; C.M.P.</td>
<td>100</td>
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<tr>
<td>1152+95</td>
<td>2&quot; steel</td>
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<tr>
<td>1155+70</td>
<td>6&quot; steel</td>
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<tr>
<td>1178+80</td>
<td>16&quot; steel</td>
<td></td>
<td>Concrete spillbox L.S.</td>
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</table>
Notes pertaining to gates and abbreviations:
Calco gate Model No. 100 is placed on the outlet end of pipes.
It closes against face pressures, and opens automatically to
permit outflow whenever the pressure is reversed by a change in
water levels.
Abbreviations are as follows:
C.M.P. = Corrugated metal pipe
R. S. = Riverside
L. S. = Landside

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

(2) Check Lists - Exhibit E of this Supplement Manual.
(4) Additional Requirements - paragraph 5-05 of the
(5) Safety Requirements - paragraph 5-06 of the Standard
    Manual.

2-03. Channel

a. Description. The floodway of the Sacramento River within
this unit consists of a low water channel which meanders through an overflow
area about one mile wide. Floods are confined between levees along
both banks of the floodway. This portion of the Sacramento River from
the south line of the Parrott Grant to the Princeton-Afton Road, has a
project design capacity of 160,000 cubic feet per second and the levee
provides for a free board of 3 feet or more.

Since the channel of the Sacramento River from the
Parrott Grant Line to Princeton-Afton Road is utilized for navigable
purposes, the responsibility of local interests for inspection,
maintenance and operation of the channel shall be limited to flood
control.

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

(2) Check Lists - Exhibit E of this Supplement Manual.


It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood in excess of a reading of 69.0 on the gage at Butte City as indicated in paragraph 1-05 of this manual. The Superintendent shall dispatch a message by the most suitable means to the District Engineer whenever the water surface at Butte City reaches the gage reading indicated above. The Superintendent shall cause readings to be taken at said gage at intervals of two to four hours during the period when the water surface is above the flood-flow stage indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-06 of the Standard Manual.

2-04 Miscellaneous Facilities

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

(1) Bridge and Ferry Crossing.
   (a) Princeton-Butte City Ferry crossing at approximate station 965+00.
   (b) County road (Princeton to Biggs Road) bridge crossing at Butte City.

(2) Miscellaneous Structures.
   (a) Wood warehouse with concrete floor at elevation 95.3 from station 1143+02 to 1147+92.
   (b) Steel sheet piling from station 1136+00 to 1139+80.
   (c) Reinforced concrete retaining wall from station 1153+30 to 1153+70.

(3) Utility Relocation. None.
(4) Hydrographic Facility. Continuous water stage recorder and staff gage located on the left bank of the Sacramento River about 200 feet upstream from State Highway Bridge near Butte City. This gage is to be maintained by the State Division of Water Resources and U.S.G.S.

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


(2) Check Lists – paragraph 7-03 of the Standard Manual.


2-05 Environment Protection

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

b. Consistent with the standards established in this manual and those established by the State of California, all wild growth, including but not limited to, trees, shrubs and other vegetation within those project areas where environmental easements have been obtained by local interests shall be preserved and retained. (Reference Site Murphy Slough Left Bank)
SECTION III

REPAIR OF DAMAGE TO PROJECT WORKS AND

METHODS OF COMBATING FLOOD CONDITIONS

3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Division of Water Resources, State of California who coordinates maintenance of project works of the Sacramento River Flood Control Project. The State representative will give assistance or advice, or will determine appropriate action to be taken.

3-02. Applicable Methods of Combating Floods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Revised Standard Manual, where the subject is fully covered.
EXHIBIT A

FLOOD CONTROL REGULATIONS

(See Standard Manual)
LOCATION MAP
UNIT NO. 138
EAST LEVEE OF SACRAMENTO RIVER FROM PARROTT GRANT LINE TO FERRY ROAD
SCALE: 1" = 6,000'

LEGEND
--- Extent of Levee in this Unit
EXHIBIT B

“AS CONSTRUCTED”

DRAWINGS

See separate folder for the following drawings:

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<td>6-4-1464</td>
<td>Sacramento River, Proposed Bank Protection at Butte City, Miles 168.6 &amp; 168.9 in 1 sheet.</td>
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<td>6-6-2059</td>
<td>Channel Clearing, Colusa to Butte City (for drawings see O&amp;M Manual No. 136).</td>
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<td>50-4-1716</td>
<td>Proposed Enlargement of East Levee along Sacramento River – Princeton–Butte City Road to Parrott Grant Line, Sheets 1 to 6, incl.</td>
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<td>50-4-2897</td>
<td>Sacramento River Project – Surface Levee Crown for Patrol Road Purposes, Sheets 1, 2, and 4.</td>
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<tr>
<td>50-4-4892</td>
<td>Bank Protection, Various Locations, on Sacramento and Bear Rivers and Elder Creek in 20 sheets.</td>
</tr>
<tr>
<td>50-4-5438</td>
<td>Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 110.0 to Mile 184.0, in 33 sheets.</td>
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<tr>
<td>50-4-5601</td>
<td>Emergency Levee Repairs, Murphy Slough Levee, in one sheet.</td>
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<td>50-4-5712</td>
<td>Bank Protection unit 38A, Sacramento River miles 80.6 to 198.6.</td>
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<td>50-4-5723</td>
<td>Bank Protection, Sacramento River miles 178.5 to 187.1.</td>
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<td>50-4-5758</td>
<td>Bank Protection, Contract 40a, Right and Left Banks, Sacramento River Mile 132.4 to Mile 179.5, in 68 sheets.</td>
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<td>50-4-5774</td>
<td>Bank protection, Left Bank Sacramento River, Mile 187.1.</td>
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<td>A-10-4-7</td>
<td>Emergency Repair of Damaged Rock Revetment Sites at Butte Basin Overflow Structures, in 6 sheets.</td>
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Addition drawings of cross-sections, structures, and miscellaneous facilities are available in the Office of the District Engineer.
EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(See Standard Manual)
EXHIBIT D

CHECK LIST NO. 1
LEVEE INSPECTION REPORT

(See Standard Manual)
EXHIBIT E

CHECK LISTS OF LEVEES, CHANNEL AND STRUCTURES

For definition of "flood" or "high water period," see paragraph 1-05 of this manual
CHECK LIST NO. 2  
UNIT NO. 138

Inspector's Report Sheet No. _______  Inspector______
Date__________________________  Superintendent____________________

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<td>(a) Location by Station</td>
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<td>(b) Settlement, sloughing, or loss of grade</td>
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<td>(c) Erosion of back slope</td>
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<tr>
<td>(d) Condition of roadways, including ramps</td>
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<tr>
<td>(e) Evidence of seepage</td>
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<tr>
<td>(f) Condition of farm gates and fencing</td>
<td></td>
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<tr>
<td>(g) Maintenance measures taken since last inspection</td>
<td></td>
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<tr>
<td>(h) Comments</td>
<td></td>
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</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 from nearest reference point; indicate right or left bank.

Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gullyng of the section has occurred.

Item (c) If sufficient erosion or gullyng of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.

Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.

Item (e) Indicate any evidence of seepage through the embankment section.

Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.

Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.

Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.
CHECK LIST NO. 3

CHANNEL AND RIGHT-OF-WAY
UNIT NO. 138

Inspector's Report Sheet No. ___________ Inspector ___________
Date ___________ Superintendent ___________

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<td>(a) Name of channel and location by stations</td>
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<tr>
<td>(b) Vegetal growth in channel</td>
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<td>(c) Debris and refuse in channel</td>
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</tr>
<tr>
<td>(d) New construction within right-of-way</td>
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<tr>
<td>(e) Extent of aggradation or degradation</td>
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<tr>
<td>(f) Condition of riprapped section</td>
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<tr>
<td>(g) Condition of bridges</td>
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<tr>
<td>(i) Comments</td>
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</tbody>
</table>
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.
CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES
UNIT NO. 138

Inspector's Report Sheet No. ___________  Inspector ___________
Date ___________  Superintendent ___________

See drawings of Exhibit "B" for location of stations

<table>
<thead>
<tr>
<th>(a) Station</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 concrete headwall or invert paving</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>
</tr>
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<tbody>
<tr>
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</tbody>
</table>
INSTRUCTIONS FOR COMPLETING SHEET 6, EXHIBIT E
(To be printed on back of Sheet 6)

(1) Enter station of all structures under Column (a) for check list.

(2) Inspect inlet, barrel, and outlet for accumulation of sediment, rubbish, and vegetal matter. Note condition under Column (c).

(3) If any settlement or damage to the pipe, barrel, or invert of the drain has occurred, estimate the location and amount. Note particularly if any backfill has come into the pipe or been disturbed. Record observations under Column (d).

(4) Inspect the concrete portions of the structures for evidence of settlement, cracks, "pop-outs", spaces, abrasive wear, or other deterioration. Record conditions under Column (e).

(5) Inspect backfill area adjacent to structure for evidence of erosion caused by overflow of the drainage structure and note conditions in Column (f).

(6) Under Column (g) indicate physical measures that have been taken to correct conditions reported in last inspection, and their condition at time of this inspection.

(7) Under Column (h) record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

(8) A copy of the inspector's report is to be mailed to the District Engineer immediately on completion, and a record copy shall be attached to the Superintendent's semi-annual report.
EXHIBIT F

LETTER OF ACCEPTANCE
BY STATE RECLAMATION BOARD
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
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<tr>
<td>13</td>
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</table>
Navigation and Flood Control Unit

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

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the left bank of the Sacramento River at R.M 186.78-186.87, R.M 186.83-187.00, R.M. 189.05-189.30, and R.M. 189.57-189.65, SAC 58 Butte Basin Maintenance Area, to the State of California for operation and maintenance.

The work consisted of restoring the left waterside bank of the Sacramento River damaged by the January 1997 Flood by backfilling scoured areas, placing rock revetment along toe and embankment of the left bank, and form rock fish groins 50-feet O.C. on the embankment above the water line, placed one-foot soil layer on top of revetment and hydroseeded area. The work as listed in the enclosure was completed on September 28, 1998, in accordance with Specification No. 9960E, Drawing File No. A-10-4-7, Contract No. DACW05-98-C-0055

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the Operations and Maintenance Manual for the Sacramento River Flood Control System in SAC 58 Butte Basin. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of the date of this letter to the State of California for operation and maintenance.

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

Sincerely,

Michael J. Walsh
Colonel, Corps of Engineers
District Engineer

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

Unit 138 Exhibit F
Colonel Michael J. Conrad, Jr.
District Engineer
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Dear Colonel Conrad:

In your letter of April 18, 2001 to The Reclamation Board, the U.S. Army Corps of Engineers transferred the repaired left bank of the Sacramento River at River Mile 186.78 to RM186.87, RM186.83 to RM187.00, RM189.05 to RM189.30, and RM189.57 to RM189.65 (in the Butte Basin Maintenance Area) to the State of California for operation and maintenance. You advised the Board that the completed repairs would be added by amendment to the Operation and Maintenance Manual, Sacramento River Flood Control Project. We understand that the repairs were completed in accordance with the original plans and specifications. We acknowledge receipt of the as-built drawings and will forward a copy to the Department of Water Resources.

The Board, on behalf of the State of California, accepted the completed repairs at its September 21, 2001 meeting and transferred the completed repairs to DWR. Until the Corps provides the O&M Manual amendment, DWR will perform operation and maintenance in accordance with the current manual.

If you have any questions, you may contact Peter Rabbon, General Manager of The Reclamation Board at (916) 653-5434, or your staff may contact Debbie Carlisle, Chief of the DWR's System Integrity Section, Division of Flood Management, at (916) 574-0364.

Sincerely,

Betsy A. Marchand
President

cc: (See attached list.)
cc:  Mr. Kell Cloward
Readiness Branch
Sacramento District
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Mr. Thomas M. Hannigan, Director
Department of Water Resources
1416 Ninth Street, Room 1115-1
Sacramento, California 95814

Mr. Ken Dickerson, Superintendent
Sutter Maintenance Yard
Department of Water Resources
Post Office Box 40
Sutter, California 95982-0040

Exhibit F
December 21, 1987

Navigation and Flood Control Unit

The Reclassification Board
State of California
1416 - 9th Street, Room 455-B
Sacramento, California 95814

Members of the Board:

Here is in regard to the joint inspection of December 1, 1987, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 40A) to the State of California for operation and maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 147.7, 174.0, 177.4, 178.8, and 177.3; and left bank at Site Miles 132.4, 134.8, 135.4, 137.3, 144.7, 156.1, 159.3, and 159.8.

The work was completed on December 16, 1987, in accordance with Contract Number DAWO1586-C-0095, Specification Number 7875 and Drawing Number 50-4-57E1LLY.

The work was performed under general authority of the Flood Control Act of 1960, 64th Congress, 2nd Session (PL 86-645, July 14, 1960), and Section 204(a), Title 14, and the Water Resources Development Act of 1966 (PL 99-662, October 1, 1966), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank is transferred as of December 21, 1987 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 134, 136, 137, and 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

[Signature]

Czarzas

Scholl

Col. Corps of Engineers

District Engineer

[Signature]

Wang #8

December 21, 1987

[Stamp]

Exhibit F
January 20, 1967

Navigation and Flood Control Unit

The Reclamation Board
State of California
1410 – 9th Street, Room 425-6
Sacramento, California  95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to project works under authority of Section 5 of the Flood Control Act of August 10, 1946, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 10, 1966, and consisted of restoring the bank protection at three sites on the Sacramento River left bank Mile 187.1, in accordance with Contract Number DACW53-66-C-0114 and Drawing Number 50-4-5774. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Bank Protection Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 116, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

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

McCollan

Scholl

Wang 6289a
MAR 3 1986

Colonel Wayne J. Scholl
District Engineer
Sacramento District
U. S. Army Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814

Dear Colonel Scholl:

Reference is made to your letters of October 21 and November 27, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 38A to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 154.6 Right Bank, and 192.6, Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5712, Specification No. 7053, and Contract No. DACW 05-84-C-0012, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of January 17, 1986, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance.

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

Sincerely,

Original signed by
Robert L. Manning

RAYMOND E. BARSCH
General Manager

bcc: Gene Snow
Robert Bailey
RRGoodnight:pva
MAR 3 1986

Colonel Wayne J. Scholl  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA  95814

Dear Colonel Scholl:

Reference is made to your letter of October 23, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 39 to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 178.5 and 187.1, Left Bank (Sites 1 and 2), and 179.4 and 188.5, Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5723, Specification No. 7377, and Contract No. DACW 05-85-C-0059, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of January 17, 1986, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance.

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

Sincerely,

Original signed by  
Robert L. Manning  
RAYMOND E. BARSCH  
General Manager

bcc: Gene Snow  
Robert Bailey  

RRGoodnight:pva
October 23, 1985

Navigation and Flood Control

The Reclamation Board
State of California
1416 - 9th Street, Room 453-6
Sacramento, California 95814

Members of the Board:

This is in regard to the joint inspection of October 16, 1985, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (unit 39), to the State of California for Operation and Maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 179.4 and 188.5 and left bank at Site Miles 178.5 and 187.1 (sites 1 and 2). The sites were completed during the past construction season in accordance with Contract No. DAW05-85-C-0059, Specification No. 7377 and Drawing No. 50-4-5723.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of October 16, 1985 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 139 and 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

WAYNE J. SCHOLL
Colonel, CE
District Engineer

Copy Furnished:

ENG Div
Civil Design Section D (Pahll)

Harold M. Luttrell
Commander, South Pacific Division

Dennis J. Scholl
Commander, USACE

ICM, ATTN: D. Maizner

PC: Flood Control Unit > C-0 Div

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KELLY

FAST

DENNIS

SCHOLL
October 21, 1985

Navigation and Flood Control Unit

The Reclamation Board
State of California
1416 - 9th Street, Room 435-6
Sacramento, California 95814

Members of the Board:

This is in regard to the joint inspection of February 6, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 38A) to the State of California for Operation and Maintenance. The flood control work consists of levee setbacks, bank sloping and placement of stone protection on the Sacramento River left bank at Site Mile 192.6. The site was completed during the past construction season in accordance with Contract No. DACW05-84-C-0112, Specification No. 7053 and Drawing No. 50-4-5712.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10. Deficiencies noted during the joint inspection have been corrected and the work now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of October 9, 1985 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 138, Sacramento River Flood Control Project. Copies will be furnished for your office at a later date.

Sincerely,

WAYNE J. SCHOLL
Colonel, Corps of Engineers
District Engineer

Copy Furnished:
DWR, ATTN: M. Luttropp
DWR, ATTN: D. Meixner
Commander, South Pacific Division, ATTN: SPDCO-0
Commander, USACE, ATTN: DAEM-CWO-0
May 11, 1984

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 at Murphy Slough 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, 1983 with follow on repairs completed on April 27, 1984 and consisted of restoring the Murphy Slough Levee (State of California Maintenance Area #15) in accordance with Contract Number DACW05-84-C-0036 and Drawing Number 50-4-5601. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Bank Protection Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 138, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

Arthur E. Williams
Colonel, Corps of Engineers
District Engineer

EXHIBIT F
JAN 1985
<table>
<thead>
<tr>
<th>Site Mile</th>
<th>Station</th>
<th>Stone Protection L.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>177.3 right bank</td>
<td>8+00 to 14+50</td>
<td>650</td>
</tr>
<tr>
<td>176.6 right bank</td>
<td>42+00 to 67+00</td>
<td>2500</td>
</tr>
<tr>
<td>168.4 left bank</td>
<td>0+50 to 8+00</td>
<td>750</td>
</tr>
<tr>
<td>164.7 right bank</td>
<td>3+00 to 20+00</td>
<td>1700</td>
</tr>
</tbody>
</table>
DEC 31 1981

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

Dear Colonel Kavanaugh:

Reference is made to your letter of December 10, 1981, concerning the transfer to the State of California for operation and maintenance, a portion of the Sacramento River Bank Protection Project, in Unit No. 35.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 164.7, 176.6 and 177.3 Right Bank and 168.4 Left Bank, Sacramento River.

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

The Reclamation Board at its regular meeting of December 18, 1981, formally accepted from the District Engineer, for operation and maintenance, the completed work on the above-referenced sites.

Sincerely,

[Signature]

ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
The Reclamation Board  
State of California  
1416 - 9th Street, Room 335  
Sacramento, CA 95814  

Members of the Board:

This is in regard to the joint inspection of 4 December 1981, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 35), to the State of California for operation and maintenance.

The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 164.7, 176.6 and 177.3 and left bank at site Mile 168.4. The sites described in the enclosure were completed on 4 December 1981 in accordance with Contract No. DACW05-81-C-0036, Specification No. 5472 and Drawing No. 50-4-5438.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of 4 December 1981 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 138, 139, and 140 Sacramento River Flood Control Project. Copies will be furnished your Board at a later date.

Sincerely,

1 Incl  
As stated  

PAUL F. KAVANAUGH  
Colonel, CE  
District Engineer

Copy furnished: w/incl  
DWR, ATTN: M. Luttrell and D. Meixner

EXHIBIT F
November 26, 1975

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

Dear Sir:

The Reclamation Board at its regular meeting of November 21, 1975, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 27 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of November 10, 1975.

The flood control work consisted of selective clearing, bank sloping placement of stone bank protection, construction of access roads, and such miscellaneous work as necessary to complete the construction on the Murphy Slough Left Bank site and at Sites Miles 187.4 and 189.5 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4892, Specification No. 4461, and Contract No. DACW05-75-C-0085, insofar as could be determined visually.

Sincerely,

/s/ P.C. Walters
P.C. WALTERS
Chief Engineer and General Manager
The Reclamation Board  
State of California 
1416 - 9th Street, Room 335 
Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection of 5 November 1975, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 27) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Murphy Slough left bank and Sacramento River left bank at Site Miles 187.4 and 189.5. The sites, as listed on the enclosure, were completed on 5 November 1975 in accordance with Specification No. 4461, Contract No. DACW05-75-C-0085, Drawing No. 50-4-4892.

The work was performed under the general authority of the Flood Control Act of 1960, 66th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 10 November 1975 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 129 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

F. C. Rockwell, Jr. 
Colonel, CE 
District Engineer

Copy furnished: 
DWR, ATTN: R. Fransen & Carl King

OCE 
SPD

cc:

Flood Control Unit 
Valley Res Ofc

Engr Div (Leve & Chan) 
(Prog & Dev) 
F&A (Kalal)
<table>
<thead>
<tr>
<th>Site Mile</th>
<th>Stone Protection</th>
<th>L.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>26+00 to 29+00</td>
<td>300'</td>
</tr>
<tr>
<td>187.4</td>
<td>0+00 to 26+00</td>
<td>2600'</td>
</tr>
<tr>
<td>189.5</td>
<td>6+00 to 36+00</td>
<td>3000'</td>
</tr>
</tbody>
</table>

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION UNIT #27

Murphy Slough Left Bank

Sacramento River Left Bank

Bart Co
December 16, 1963

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

Dear Sir:


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

Sincerely yours,

A. E. McCOLLAM
General Manager

HSH:gg

12/23/63

Copies sent to:
Barsdale
Jensen
Northern Area Ofc.
The Reclamation Board  
State of California  
1213 "O" Street  
Sacramento 14, California  

Gentlemen:

Reference is made to the joint inspection made on 22 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.

The above work designated as Unit No. 670, consists of channel clearing in the Sacramento River at Sites A, B, C, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, and X, between Colusa and Butte City, California. This work was completed on 16 October 1963, in accordance with Specification No. 2775, Contract No. DA-04-167-CIVENG-63-59 and Drawing No. 6-6-2059.

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 banks 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, enclosed 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 206.10(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.
SPRCD-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
EXECUTING ASSISTANT

CO AND IN THE TEMPORARY ABSENCE OF

C. R. TEAGLE
Lt Col, GE

Acting District Engineer

V Incl
F.C. Regulations

Copy furnished:
Dept Water Resources
23rd & "R" Streets
Sacramento, Calif.
O.C.E.
S.P.D.

cc: Engr Div, Lev & Chan
Engr Div, Prog Dev Br
F & A Br
Northern Area Ofc
The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento, California

Gentlemen:

Reference is made to letter from this office dated 9 July 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 units of the Sacramento River Flood Control Project in accordance with the procedure set forth in a letter from this office dated 12 February 1951. Reference is also made to the joint inspection of these units of work which was made on 15 July 1952.

In accordance with the above, you are hereby advised that four of the units mentioned above were completed on 21 July 1952. These completed units are described as follows:

a. Westerly Levee along the Sacramento River, Part "A" of Specification No. 1636, Drawing No. 50-4-2897, near Glenn, Glenn County, California.

   343 (1) From Mile 165.5 to Mile 167.5 139
   344 (2) From Mile 168.0 to Mile 174.1 139, 140

b. Easterly Levee along the Sacramento River, Part "B" of Specification 1636, Drawing No. 50-4-2897, near Butte City, Glenn County, California.

   345 (1) From Mile 164.4 to Mile 168.5 138
   346 (2) From Mile 168.9 to Mile 176.5 138
The completed levee units referred to above, 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 bank contiguous thereto, are hereby transferred to the State of California for maintenance and operation.

It is to be noted that the sections of levee listed below, including portions of levee on which patrol roads were recently constructed under Part "A" and "B" of Specification No. 1636, were previously transferred to the State of California for operation and maintenance:

a. Westerly levees along the Sacramento River:

1. From Princeton (Mile 163.8) to Packers Warehouse, (Mile 165.5). Transferred by letter dated 3 December 1951, under Item a.

2. From Mile 167.5 to opposite Packers Lake, Mile 168.0. Transferred by letter dated 3 December 1951, under Item b.

3. From Glenn, Mile 174.1 to Sudds Landing, Mile 177.5. Transferred by letter dated 3 December 1951, under Item a.

b. Easterly levees of the Sacramento River:

1. From Mile 158.5 (North end Moulton Weir) to Mile 164.4 (Princeton Ferry). Transferred by letters dated 6 February 1945 and 8 December 1951, paragraph b(3) of last letter.

2. From Mile 168.5 to Mile 168.9 (at Butte City). Transferred by letter dated 8 December 1951, under Item paragraph b(4).

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 Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under paragraph 203.10(10) of these regulations, a maintenance manual covering these units of work is in process of preparation and will be furnished your Board upon completion.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy furnished: State Engineer

cc: Office Chief of Engrs.
   Engr. Div. R. Reifsnider
   So. Pac. Divn. Engr
   Sacto F. Exec. Officer
   C de Arrieta
The Reclamation Board
State of California
1100 "G" Street
Sacramento 14, California

Gentlemen:

Reference is made to your letter of 22 June 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. Northerly levees of the American River from Jibboon Street Bridge to Sacramento River. 118 2 (7)

b. Easterly levees of the Sacramento River.

   (1) American River to Natoma Cut. 60.25 to 79.0 134
   (2) At Moulton Weir. (man 2) 154
   (3) Mile 153.5 (North End Moulton Weir) to Mile 164.4 (Princeton Ferry). (man 2) 138
   (4) Mile 166.8 to Mile 168.9 (at Butte City). (man 2) 138

c. Wasterly levees of the Sacramento River.

   (1) Mile 59.3 to Mile 60.75. No
   (2) Mile 61.8 to Mile 62.68 (at Dryte Bend). 116

Items 140 to 198
c. Wasterly levee of the Sacramento River. (cont'd)

(3) Mile 62.65 to Mile 65.1 (South End Sacramento Weir). 126

(4) At Sacramento Weir. 158

(5) Mile 65.5 (North End Sacramento Weir) to Mile 67.11. 122

(6) Mile 68.42 to Mile 70.9. 122

(7) Mile 76.5 to Mile 81.7 (East End Fremont Weir). 123

(8) Along Fremont Weir. 157

(9) Mile 84.0 (West End Fremont Weir) to Mile 85.5. 128

(10) Mile 85.5 to Mile 85.9. 128

(11) Mile 87.6 to Mile 88.4. 128

(12) Mile 89.2 to Mile 89.6 (Knights Landing Highway Bridge). 128

(13) Mile 89.8 (Knights Landing Highway Bridge) to Sycamore Slough. 89.9 128

(14) Mile 100.6 to Mile 101.4. 128

(15) Mile 110.9 to Mile 111.2. 128

d. Wasterly levee of the Feather River.

(1) Sutter Bypass to Nicolaus Bridge. 1413

(2) From a point 5.31 miles northerly from Nicolaus Bridge to the Fifth Street Bridge between Marysville and Yuba City. 1413, 1414

(3) From a point 1400 feet northerly from the Fifth Street Bridge between Marysville and Yuba City to Station 774+30 "Y.C.N.B." Traverse. 1411

(4) From a point east of Station 1188+00 "Y.C.N.B." Traverse to high ground just northerly from the Western Canal Roadgate. 1414

d. Wasterly levee of the Sacramento River from Wacomas Cut to Feather River. 1411.1
f. Easterly levees of the Feather River.

(1) Sacramento River to a point 2.37 miles southerly from Nicolaus Bridge. 141 P+2

(2) Bear River to Mile 14.4.


(4) Mile 14.7 to Mile 21.5.

(5) Mile 21.5 to Mile 22.76. 145

(6) Mile 22.76 to Mile 26.6 (Point where levee and S.P.R.R. meet). 145

g. Levees protecting the City of Marysville. 149 147

(1) From the W.P.R.R. at Simmerly Slough easterly to the Yuba River.

(2) Along the Yuba River from the "D" Street Bridge to the back levee near the Valley Meat Company.

h. Levees protecting Reclamation District No. 10.

(1) Northerly levee of Simmerly Slough from the W.P.R.R. to the S.P.R.R. 151

(2) Easterly levee of the Feather River from Simmerly Slough to a point 4.8 miles northerly from Simmerly Slough. 151

i. Northerly levee of the Yuba River from the back levee of the City of Marysville to a point 1.9 miles easterly from said back levee. 147

j. Southerly levee of the Yuba River from Feather River (i.e. S.P.R.R. easterly to the S.P.R.R. Main Line). 145

k. Northerly levee of Bear River from Feather River easterly to the W.P.R.R. Interceptor. 145

l. Northerly levee of the W.P.R.R. Interceptor and Clark Slough Interceptor (i.e. back levee of Reclamation District No. 784) from Bear River to the southerly end of the Clark Slough Interceptor.
Southwester levees of the American River.

1. Sixteenth Street Bridge to the S.W.R.R. 118.1
2. From a point 600 feet easterly from the N.W.R.R., to Mayhew Station. 118.1

Westerly levees of the Yolo Bypass.

1. Sacramento River to Knights Landing Ridge Cut. 127
2. Knights Landing Ridge Cut to the northeast corner of the Cache Creek Settling Basin. 126
3. S.W.R.R., Woodland Branch to a point 1.6 miles southerly from said railroad. 121
4. From a point 1.6 miles southerly from the S.W.R.R., Woodland Branch to the Willow Slough Pipes. 121
5. From a point 1.45 miles southerly from the Willow Slough Pipes to a point 1.9 miles southerly from said pipes. 121
6. From a point 1.9 miles southerly from the Willow Slough Pipes to the Willow Slough Interceptor. 121
7. From the Willow Slough Interceptor to Highway U.S. 40. 120
8. From Highway U.S. 40 to Putah Creek. 119

Easterly and westerly training levees of Cache Creek Settling Basin from Cache Creek southerly. 126

Northerly and southerly levees of the Willow Slough Interceptor from the S.W.R.R. to the Yolo Bypass. 120

Northerly levee of Putah Creek from Yolo Bypass westerly to high ground. 119

Northerly levee of Putah Creek from high ground on Dixon Ridge westerly to high ground. 119

Southwester levee of Knights Landing Ridge Cut. 127

1. From Yolo Bypass westerly 600 feet. Also covered under Unit 76-A
2. From a point 2,500 feet westerly from Yolo Bypass to a point 2,800 feet westerly from Yolo Bypass. 127

Also covered under 76-A
The records of this office show that your Board has accepted the levees and works covered by Items b, 1, b, 2, b, 3, c, 2, c, 4, c, 5, c, 6, c, 11, c, 12, d, 1, d, 3, d, 4, d, 5, d, 6, d, 7, e, 1, e, 2, e, 3, f, 1, f, 2, f, 3, f, 4, f, 5, f, 6, f, 7, g, 1, g, 2, h, 1, h, 2, i, 1, i, 2, i, 3, m, 1, m, 2, m, 3, m, 4, m, 5, m, 6, m, 7, n, 1, n, 2, n, 3, n, 4, n, 5, n, 6, n, 7, o, 1, o, 2, o, 3, o, 4, o, 5, o, 6, o, 7, p, 1, p, 2, q, 1, q, 2, q, 3, q, 4, q, 5, q, 6, q, 7, r, 1, r, 2, r, 3, r, 4, r, 5, s, 1, s, 2, s, 3, s, 4, s, 5, s, 6, s, 7, above, as complete. Accordingly the waterway bank contiguous to said Items is hereby transferred to the State of California for maintenance and operation.

The levees covered by Items a, b, 4, c, 1, c, 3, c, 4, c, 5, c, 6, c, 7, c, 8, c, 9, c, 10, c, 11, c, 12, d, 2, e, 2, f, 1, f, 2, f, 3, f, 4, f, 5, f, 6, f, 7, g, 2, h, 3, i, 3, m, 2, m, 3, m, 4, m, 5, m, 6, m, 7, n, 2, n, 3, n, 4, n, 5, n, 6, n, 7, o, 3, o, 4, o, 5, o, 6, o, 7, p, 2, q, 1, q, 2, q, 3, q, 4, q, 5, q, 6, q, 7, r, 3, r, 4, s, 2, s, 3, s, 4, s, 5, s, 6, s, 7, above, although complete has not been formally transferred as contemplated by the Project documents. Accordingly the levees 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 308a(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. Reifsnider
Lt. Colonel, Corps of Engineers
Executive Officer

Copy Furnished:
Office, Chief of Engrs.
State Engineer
Engr. Div. (2)
C. de Arrieta
February 25, 1953

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

Dear Sir:

Reference your letters, File No. SPKCO-P 824.3 (Sac. R.F. C.P.) dated 9 July 1952, 15 Aug 1952 and 15 Jan 1953, wherein the following levee units were transferred to the State of California:

9 July 1952 (a)

9 July 1952 (b) The easterly levee along the Sacramento River (Part "B" of Spec. #1636, near Butte City)
1. From Mile 164.4 to Mile 168.5
2. From Mile 168.9 to Mile 176.5

15 Aug 1952

15 Jan 1953

The Reclamation Board on behalf of the State of California, in meeting held February 18, 1953, accepted the above-mentioned levee units, together with their contiguous waterway banks, for operation and maintenance.

Yours very truly,
THE RECLAMATION BOARD
A. M. BARTON
Chief Engineer and General Manager

BY /s/ S. A. Honaker
S. A. HANAKER
Assistant Secretary

NOTE: Only items pertaining to Unit No. 138 were copied in above letter.
March 9, 1953

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

Dear Sir:

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

3 Dec 51

8 Dec 51 The easterly levee of the Sacramento River.
   1. From Mile 168.5 to Mile 168.9 (at Butte City).

4 Feb 53

13 Feb 53

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

Yours very truly,
THE RECLAMATION BOARD

By /s/ D. M. CARR

NOTE: Only item pertaining to Unit No. 138 was copied in above letter.
TO: The District Engineer  
Sacramento District  
Corps of Engineers  
1209-8th Street  
Sacramento, California

(1 May 19___)  
(1 Nov 19___)

Dear Sir:

The semi-annual report for the period (1 May 19___ to 31 October 19___) (1 November 19___ to 30 April 19___) Sacramento River Flood Control Project Unit No. 138, the east levee of the Sacramento River from Parrott Grant Line to Princeton-Afton Road 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 89.0 on the gage at Butte City) occurred on the following dates:

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

EXHIBIT G  
Sheet 1 of 2
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>
</tr>
</thead>
<tbody>
<tr>
<td>1. Inspection</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2. Maintenance</td>
<td></td>
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<tr>
<td>3. Flood fighting operations</td>
<td></td>
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</tr>
</tbody>
</table>

TOTAL

Respectfully submitted,

Superintendent of Works

EXHIBIT G
Sheet 2 of 2