

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

UNIT NO. 104  
LEVEES AROUND GRAND ISLAND  
RECLAMATION DISTRICT NO. 3



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

2007/12

CORPS OF ENGINEERS  
U. S. ARMY

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

UNIT NO. 104  
LEVEES AROUND GRAND ISLAND  
RECLAMATION DISTRICT NO. 3

Sacramento District  
Corps of Engineers  
U. S. Army  
February 1960

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

UNIT NO. 104

LEVEES AROUND GRAND ISLAND  
RECLAMATION DISTRICT NO. 3

LOCATION	ADDITION OR REVISION	DATE
1-04 l.	Add contract no. 60-30	Nov 1963
Exhibit B	Add drawing no. 50-4-3614	Nov 1963
1-04 m.	Add contract no. 64-51	Oct 1964
Exhibit B	Add drawing no. 50-4-3741	Oct 1964
Exhibit F	Add copy of letter of transfer dated 1 Oct 1964	Oct 1964
1-04 n.	Add contract no. 66-15	Dec 1966
Exhibit B	Add drawing no. 50-4-3848	Dec 1966
Exhibit F	Add copy of letter of acceptance dated 28 Jun 1966	Dec 1966
1-04 o.	Add contract no. 66-15	Dec 1966
Exhibit F	Add letter of transfer dated 29 Nov 1966	Dec 1966
1-04 p.	Add contract no. 66-149	Apr 1967
Exhibit B	Add drawing no. 50-4-4008	Apr 1967
Exhibit F	Add letter of acceptance dated 16 Mar 1967	Apr 1967
1-04 q.	Add contract no. 66-149	Jan 1968
2-04 a. (5)	Add recreation area	Jan 1968
Exhibit F	Add letter of acceptance dated 6 Dec 1967	Jan 1968
1-04 r.	Add contract no. DACW05-69-C-0064	Feb 1970
Exhibit B	Add drawing no. 50-4-4476	Feb 1970
Exhibit F	Add copy of letter of acceptance dated 13 Nov 1969	Feb 1970
1-04 s.	Add contract no DACW05-69-C-0076	Dec 1970
Exhibit B	Add drawing no. 50-4-4283	Dec 1970
Exhibit F	Add copy of letter of acceptance dated 16 Sep 1970	Dec 1970
1-04	Add subparagraph t.	Dec 1971
2-01	Add subparagraph c	Dec 1971
Exhibit B	Add drawing no. 50-4-4378	Dec 1971
Exhibit F	Add copy of letter of acceptance dated 9 Dec 1971	Dec 1971
1-04	Add subparagraph u.	Apr 1973
Exhibit B	Added drawing no. 50-4-4487	Apr 1973
Exhibit F	Added copy of acceptance letter dated 18 Dec 1972	Apr 1973
1-04	Add subparagraph v.	Oct 1975
2-01	Revised subparagraph c.	Oct 1975
Exhibit B	Add drawing no. 50-4-4687	Oct 1975
Exhibit F	Add copy of letters of acceptance dated 11 Jan 1974 and 26 Aug 1974	Oct 1975

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
1-04	Add subparagraph w.	Dec 1975
Exhibit B	Add drawing no. 50-4-4768	Dec 1975
Exhibit F	Add copy of letters of acceptance dated 7 Jan 1974 and 15 Nov 1974	Dec 1975
1-04 x.	Add subparagraph x.	Mar 1978
2-01 c.	Delete subparagraph c. (Oct. 1975)	Mar 1978
2-05	Add section 2-05	Mar 1978
Exhibit B	Add drawing no. 50-4-4898	Mar 1978
Exhibit F	Add copy of letter of acceptance dated 14 Dec 1976	Mar 1978
1-04	Add subparagraph y.	Mar 1983
Exhibit B	Add drawing no. 50-4-5164	Mar 1983
Exhibit F	Add copy of letter of transfer dated 4 Oct 1977	Mar 1983
1-04	Add subparagraph z.	Sep 1983
Exhibit B	Add drawing no. 50-4-5347	Sep 1983
Exhibit F	Add copy of letter of transfer dated 12 Dec 1978	Sep 1983
1-04 aa.	Add subparagraph aa.	Dec 1983
Exhibit B	Add drawing no. 50-4-5541	Dec 1983
Exhibit F	Add copy of letter of transfer dated 16 Nov 1982	Dec 1983
1-04	Revise subparagraph x.	Feb 1984
1-04 bb.	Add subparagraph bb	Sep 1990
Exhibit B	Add drawing no. 50-4-5697	Sep 1990
Exhibit F	Add copy of letter of transfer dated 13 Dec 1985	Sep 1990
2-01	Add subparagraph c	5 Oct 2007
1-04	Add subparagraph cc	5 Oct 2007
Exhibit B	Add drawing no. 50-04-6270	5 Oct 2007
Exhibit F	Add copy of letter of transfer dated 5 Oct 2007	5 Oct 2007
Exhibit F	Add copy of letter of transfer dated 15 Sep 1950	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 17 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 7 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 8 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 19 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Apr 1952	16 Dec 2010
Exhibit F	Add copy of letter dated 2 Apr 1952 regarding transfer dated 8 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 24 Nov 1953	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 9 Dec 1953	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 18 Oct 1954	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 7 Feb 1955	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Jul 1960	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 9 Aug 1960	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 2 May 1966	1 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 23 Dec 1966	1 Feb 2011

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
Exhibit F	Add copy of letter of transfer dated 6 Mar 1967	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 2 Oct 1967	1 Feb 2011
1-04	Add subparagraph dd	1 Feb 2011
Exhibit B	Add drawing no. 50-4-4047	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 3 Oct 1967	1 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 25 Oct 1967	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 30 Nov 1967	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 30 Oct 1969	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 31 Aug 1970	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 18 Nov 1971	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 24 Nov 1972	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 18 Dec 1973	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 20 Dec 1973	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 31 Jul 1974	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 5 Nov 1974	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 2 Dec 1976	7 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 7 Nov 1977	7 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 22 Dec 1978	7 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 18 Mar 1986	7 Mar 2011
1-04	Add subparagraph ee	7 Mar 2011
Exhibit B	Add drawing no. 50-4-5777	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 29 Sep 1988	7 Mar 2011
1-04	Add subparagraph ff	7 Mar 2011
Exhibit B	Add drawing no. 50-4-5784	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 16 Nov 1989	7 Mar 2011
1-04	Add subparagraph gg	7 Mar 2011
Exhibit B	Add drawing no. 50-4-5813	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 24 Jan 1992	7 Mar 2011
1-04	Add subparagraph hh	31 Mar 2016
2-05	Add subparagraph c	31 Mar 2016
Exhibit B	Add drawing no. 50-4-6338	31 Mar 2016
Exhibit I	Add copy of USFWS Biological Opinion dated 19 Jun 2012	31 Mar 2016
Exhibit A	Add Exhibit A-2 Willow Planting Map	31 Mar 2016
Exhibit F	Add copy of letter of transfer dated 15 Jul 2016	19 Jul 2016
Exhibit F	Add copy of letter of transfer dated 29 Nov 2016	29 Dec 2016

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\*(Added March 1978)

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SUPPLEMENT TO STANDARD  
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SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 104  
LEVEES AROUND GRAND ISLAND  
RECLAMATION DISTRICT NO. 3

SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is Unit No. 104 of the Sacramento River Flood Control Project which, in general, comprises the right bank levee and channel of the Sacramento River that extends from the junction of the Sacramento River at head of Steamboat Slough to Junction Point (confluence of the Sacramento River and Cache Slough). Also the left bank levee and channel of Steamboat Slough that extends from the head of Steamboat Slough to Junction Point. All the levees and channels of this unit are located within Reclamation District No. 3, in Sacramento County, California in the vicinity of Walnut Grove, as shown on Location Map, Exhibit A-1.

1-02. Project Works. The flood control works included in this manual were authorized by the Flood Control Act of 1917 as modified by the Acts of 1928, 1937 and 1941 and consist of the levee and channel along the right bank of the Sacramento River on Grand Island from Mile 32.4 to Mile 14.3, a distance of about 18.1 miles and the levee and channel along the left bank of Steamboat Slough from Steamboat Slough Mile 26.18 to Mile 14.3, a distance of about 11.88 miles. The lower end of Grand Island from about Mile 14.8 to Mile 14.3 is covered with hydraulic fill to an elevation that in general is higher than the top of the levee.

1-03. Protection Provided. The right bank levee of the Sacramento River and the left bank levee of Steamboat Slough provides direct protection to agricultural land within Reclamation District No. 3. The adopted flood plane profile within this unit varies from elevation 20.5 at the head of steamboat Slough to elevation 13.0, at Junction Point (elevations are referred to U. S. Corps of Engineers datum). The project design capacity of the Sacramento River from the head of Steamboat Slough to head of Georgiana Slough is 56,500 cubic feet per second and from head of Georgiana Slough to Junction Point it is 35,900 cubic feet per second. Along Steamboat Slough from its head to the junction with Sutter Slough the project design capacity is 28,000 cubic feet per second and from Sutter Slough to Junction Point the project design capacity is 43,500 cubic feet per second.

1-04. Construction Data and Contractor. Construction required by the U. S. Corps of Engineers to bring levees of Unit No. 104 to project standards, to provide bank protection and to perform emergency repair work to locally built levees was accomplished under the following contracts or job orders:

a. Bank protection work 0.4 miles below Ryde at Mile 23.75 R was accomplished under Job Order No. 555 and completed on 29 January 1940.

Drwg. 50-4-1751

b. Bank protection work at Berlin's Mile 22.5R was accomplished under Job Order No. 556 and completed on 10 January 1940.

Drwg. 50-4-1750

c. Bank protection work at Metson's Mile 32.1R was accomplished under Job Order No. 557 and completed in July 1940.

Drwg. 50-4-1753

d. Bank protection work on Grand Island at Mile 31.0R was accomplished under Job Order No. 627 and completed on 2 February 1941.

Drwg. 50-4-1833

e. Bank protection work below Ryde at Mile 24.0R was accomplished under Job Order No. 870 and completed on 23 December 1942.

Drwg. 50-4-2020

f. Bank protection work at Miles 15.7R and 15.9R was accomplished under Job Order No. 1091 and completed on 19 February 1947.

Drwg. 6-4-1596 & 6-4-1597

g. Bank protection and levee setback work on the right bank of the Sacramento River from Mile 16.0 to Mile 16.3 was accomplished under Contract No. DA-04-167-eng-224 by M. A. Jenkins during the period from 1 May 1950 to 10 July 1950.

Spec. 1446, Drwg. 50-4-2659

h. Bank protection work on the right bank of the Sacramento River was accomplished under Contract No. DA-04-167-eng-640 by A. Teichert & Sons, Inc. during the period from 15 August 1951 to 9 May 1952.

Drwg. 50-4-2759 & 50-4-2760

i. Bank protection work on the right bank of the Sacramento River between Junction Point and Steamboat Slough was accomplished under Contract No. DA-04-167-eng-1141 by Basalt Rock Company during the period from 24 March 1954 to 27 December 1954.

Drwg. 50-4-2977

j. Bank protection work on Steamboat Slough at Mile 16.8L was accomplished under Job Order No. 1094 and completed on 25 February 1947.

Drwg. 50-4-2302

k. Stone protection at 13 sites on the left bank along Steamboat Slough on Grand Island was accomplished under Contract No. DA-04-167-CIVENG-56-32 by Basalt Rock Company, Inc., during the period from 28 November 1955 to 29 September 1956.

Spec. 1812, Drwg. 50-4-2977

l. Bank protection at critical locations, right bank Sacramento River, Site D was accomplished under Contract No. DA-04-167-CIVENG-60-30 by Elmer G. Wendt during the period from 5 October 1959 to 8 June 1960, Specification No. 2601, Drawing No. 50-4-3614.

m. Stone protection at various locations between Sacramento and Rio Vista (Contract No. 2) was accomplished under Contract No. DA-04-167-CIVENG-64-51 by Peter L. Ferry and Son during the period from 17 December 1963 to September 1964, Specification No. 2957, Drawing No. 50-4-3741.

q. Bank protection on the right bank of the Sacramento River (Miles 20.8, 25.3, 26.08 and 29.65) was accomplished under Contract No. DA-04-167-CIVENG-66-15 by Elmer G. Wendt, Inc. during the period from 9 August 1965 to 25 April 1966. Specification No. 3058, Drawing No. 50-4-3848 (Contract No. 6).

1-04.

a. Bank protection at various sites on Grand Island, right bank of Sacramento River (Unit No. 6) was accomplished under Contract No. DA-04-167-CIVENG-66-15 by Elmer G. Wendt, Inc. during the period from 9 August 1965 to 9 November 1966. Specification No. 3058, Drawing No. 50-4-3848.

\* This work was performed under the Sacramento River Bank Protection Project authorized by the Flood Control Act of 14 July 1960, Eighty-sixth Congress, Senate Document No. 103.

\* q. The construction of a recreation area (Unit No. 10) was accomplished under Contract No. DA-04-167-CIVENG-66-149 by Basalt Rock Company, Inc., during the period from 19 July 1966 to December 1967. Specification No. 3156, Drawing No. 50-4-4008.

\* p. Bank protection, right and left banks Steamboat Slough from Sacramento River to Cache Slough (Unit No. 10) was accomplished under Contract No. DA-04-167-CIVENG-66-149 by Basalt Rock Company, Inc. during the period from 19 July 1966 to December 1967. Specification No. 3156, Drawing No. 50-4-4008.

r. Stone protection on the right bank of the Sacramento River at Site Miles 19.9 and 20.1 was accomplished under Contract No. DACW05-69-C-0064 by James L. Ferry & Son during the period from 26 May 1969 to 20 October 1969. Specification No. 3649, Drawing No. 50-4-4476.

s. Stone protection on the right bank of the Sacramento River at Site Miles 19.4, 20.4, 28.8 and 30.6 (a portion of Unit No. 15, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-69-C-0076 by Eugene Luhr and Company during the period from 14 June 1969 to 25 August 1970. Specification No. 3349, Drawing No. 50-4-4283.

t. Stone protection on the right bank of the Sacramento River at Site Miles 28.3 and 29.3 (a portion of Unit No. 19, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-71-C-0021 by James L. Ferry and Son during the period from 26 August 1970 to 20 December 1971. Specification No. 3427, Drawing No. 50-4-4378.

u. Stone protection, selective clearing, and levee bank sloping of the Sacramento River at Site Mile 16.0 Right Bank (a portion of Unit No. 21, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-72-C-0046 by Eugene Luhr and Company during the period from 31 January 1972 to 5 January 1973. Specification No. 3680, Drawing No. 50-4-4487.

v. Stone protection, selective clearing, and levee bank sloping of the Sacramento River at Site Miles 15.7, 18.3, 21.3, 22.1, 23.1, 24.5, 25.6 and 30.1, right bank, (a portion of Unit No. 23, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-73-C-0012 by James L. Ferry and Son during the period from 1 August 1972 to 10 July 1974. Specification No. 4041, Drawing No. 50-4-4687.

W. Stone protection, selective clearing, and levee bank sloping of the Steamboat Slough at Site Miles 16.0, 17.8, 18.3, 19.6, 20.7, 21.1.

22.2, 22.5, 23.5, 23.8, 24.2 and 24.3 left bank, and Site Mile 15.7 right bank, Sacramento River, (a portion of Unit No. 25, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-73-C-0046 by James L. Ferry and Son during the period from 8 November 1972 to 5 November 1974. Specification No. 4210, Drawing No. 50-4-4768.

x. Stone protection, selective clearing, and levee bank sloping of the Sacramento River at Site Miles 17.3, 17.7, 18.1, 19.1, 26.4, 27.0, 27.7, 32.3, and 33.1, right bank, and Site Mile 24.8 left bank, Steamboat Slough, (a portion of Unit No. 28, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-76-C-0015 by James L. Ferry and Son, Inc. during the period from 25 August 1975 to 27 December 1976. Specification No. 4559, Drawing No. 50-4-4898.

y. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Mile 15.7 left bank, Steamboat Slough, (a portion of Unit 31) was accomplished under Contract No. DACW05-77-C-0046 by James L. Ferry and Sons, Inc. Construction was completed on 15 October 1977. Specification No. 5106, Drawing No. 50-4-5164.

z. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 15.5, 17.4, 21.5, 23.4 and 27.4 (a portion of Unit 33) was accomplished under Contract No. DACW05-77-C-0101 by Dutra Construction Company, Inc. Construction was completed on 12 October 1980, Specification No. 5269, Drawing No. 50-4-5347.

aa. Bank sloping, stone protection and selective clearing on the left bank of Steamboat Slough at Site Miles 17.4, 17.8, 20.6, 22.4, 23.8 and 25.6 (a portion of Unit 36) was accomplished under Contract No. DACW05-80-C-0113 by E. W. Eldridge. Specification No. 5747, Drawing No. 50-4-5541.

bb. Bank sloping, stone protection and selective clearing on the left bank of the Steamboat Slough at Site Miles 25.3 and the right bank of the Sacramento River at Site Miles 27.2, 27.6, 31.0, 15.9, 17.6, and 18.2 (a portion of Contract 37) was accomplished under Contract No. DACW05-84-C-0104 by Roy D. Garren Corp. Specification No. 7014, Drawing No. 50-4-5697.

cc. Emergency protection under PL 84-99 was provided to eight (8) damage sites. Four sites were located along the Sacramento Rivers right bank (Unit 2) and four sites along Steamboat Sloughs Left Bank (Unit 1). The repairs were as follows.

Steamboat Slough, Left Bank Levee:

- Station 44+92 to 46+32 (Site 20051230-002-002) and 100+24 to 101+53 (Site 20051230-002-005). Repairs consisted of the restoration of 140-foot and 170-foot-long levee section, respectively. Restoration activities included the removal of trees and vegetation (where required for necessary levee work) and the placement of a minimum 3-foot thick layer of 18-inch quarry rock along the levee toe up to elevation 10-feet. A 12-inch thick bedding layer was installed between quarry rock and the levee.

- Station 63+31 to 65+36 (Site 20051230-002-004) and 213+01 to 213+31 (Site 20051230-002-007). Repairs consisted of the restoration of a 205-foot and 70-foot-long levee section, respectively. Restoration activities included the removal of trees and vegetation (where

required for necessary levee work) and the placement of a minimum 3-foot thick layer of 18-inch quarry rock along the levee toe up to elevation 10-feet at site -004 and to elevation 9-feet at site -007. A 12 inch thick bedding layer was installed between quarry rock and the levee embankment.

Sacramento River, Right Bank Levee:

- Station 347+18 to 349+16 (Site 20051230-002-023) and 910+28 to 913+08 (Site 20051230-002-038). Repairs consisted of the restoration of a 70-foot and 160-foot-long levee section, respectively. Restoration activities included the removal of trees and vegetation (where required for necessary levee work), excavation required to create a horizontal bench extending 5-feet from the surface of existing rip-rap (@ site -023), placement of 12-inch pit run rock in 12-inch thick tamped lifts to match existing grade above & below the bench (@ site -023), and to elevation 15-feet (@ site -042). Transitional sections were provided for a gradual transition from typical repair areas.

- Station 675+87 to 676+53 (Site 20051230-002-034) and 708+16 to 709+64 (Site 20051230-002-038). Repairs consisted of the restoration of a 70-foot and 160-foot-long levee section, respectively. Restoration activities included the removal of trees and vegetation (where required for necessary levee work), placement of 12-inch pit run rock in 12-inch thick tamped lifts to elevation 18-feet (@ site -038). Rockfill was not placed within 5 feet of an existing iron pipe (@ site -038) in order to prevent any possible damage to the pipe. Transitional sections were provided for a gradual transition from typical repair areas

All of the damage sites mentioned above received restoration work on their waterside levee slopes that restored them to pre-flood conditions and included placement of rock protection to the undamaged height and thickness at transitions. Construction was completed by Wood Brothers, Inc., on February 15, 2007. Contract No. W91238-06-D-0008, Specification No. 1138E, Drawing No. 50-04-6270.

dd. Bank sloping, stone protection and levee enlargement along the Sacramento River, Site Mile 16.6, left bank and Site Miles 18.5, 18.8, 23.7 and 24.1, right bank, was completed on 25 September 1967 under Contract No. DACW05-67-C-0027. Specification No. 3157, Drawing No. 4047.

ee. Bank sloping and stone protection along the right bank of the Sacramento River, Site Mile 23.2 and the right bank of Steamboat Slough, Site Miles 21.1 and 22.9 was completed on 12 August 1988 under Contract No. DACW05-87-C-0079 by J.E. McAmis Inc.. Specification No. 8054, Drawing No. 50-4-5777.

ff. Bank sloping and stone protection on the right bank of the Sacramento River, Site Miles 23.6 and 26.7 and left bank of Steamboat Slough, Site Miles 19.8, 23.2 and 25.9 was completed on 8 November 1989 under Contract No. DACW05-89-C-0037 by J.E. McAmis Inc.. Specification No. 8259, Drawing No. 50-4-5784.

gg. Construction of dredge berms on the right bank of the Sacramento River, Site Mile 32.0 and left bank Steamboat Slough, Site Miles 23.8 and 22.4 was completed on 9 January 1992 under Contract No. DACW05-91-C-0088. Specification No. 8679, Drawing No. 50-4-5813.

hh. Willow poles were planted as part of mitigation efforts required under consultation with the U.S. Fish and Wildlife Service (08FBDT00-2012-I-0021) for construction effects on endangered species as a result of PL 84-99 repair efforts. The work was accomplished by Erick Ammon Inc. under Contract No. W91238-12-C-0048 and W91238-14-P-0091, Drawing No. 50-4-6338. The work was completed Feb 2015. As constructed drawings are contained in Exhibit B. The USFWS Biological Opinion is contained in Exhibit I.

1-05. Flood Flows. For purposes of this manual" the term "flood" or "high water period" shall refer to flows when the water surface in the Sacramento River reaches or exceeds the reading of 17.0 on the continuous water stage recorder and staff gage located on the left bank of the Sacramento River, one-quarter mile upstream from the head of Snodgrass Slough. Gate set at 0.0 feet U. S. Corps of Engineers datum and minus 3.02 feet, U.S.G.S. datum. Also when the water surface in the Sacramento River reaches or exceeds the reading of 10.0 on the continuous water stage recorder and staff gage located on the left bank of the Sacramento River at Walnut Grove immediately upstream from the head of Georgiana Slough. Gage set with 0.00 at elevation 2.84 feet U. S. Corps of Engineers datum and 0.00 feet U.S.G.S. datum.

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

1-07. Transfer to the State Reclamation Board. Responsibility for operating and maintaining the completed works of Unit No. 104 was officially transferred to the State Reclamation Board on 14 January 1955 and 3 December 1956, as shown on the attached letters of transfer, 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 limits of the levee covered in Unit No. 104 are as described in paragraph 1-02 of this manual. Along the Sacramento River State Highway No. 24 traverses the crown of the levee from the bridge crossing the Sacramento River near Isleton to the upper end at the head of Steamboat Slough; a distance of about 13.9 miles. Along Steamboat Slough a paved county road traverses the full length of the levee. Reconstruction of this levee consisted mainly of enlargement along the riverside slope, sloping the bank and placing stone protection. For more complete detail of items in reconstruction of the above levee reference is made to the "As Constructed" drawings of Exhibit B. Structures affecting levee maintenance are listed in Exhibit E.

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

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

c. Inspection. The repaired erosion sites should be visually inspected at the beginning and end of each flood season, and during and after each flood event. The inspector should note the presence of any of the following items:

- Displacement of rock riprap
- Erosion of soil not covered by riprap
- Depressions, changes in grade, slumps, "sinkholes", bulges, or cracking in the levee slope
- Cracks or depressions in the levee crest
- Rodent activity
- Tilting vegetation (e.g., trees)
- Seepage, boils, slumps or "soft" conditions on the landside slope and toe area (during or right after flood events only)

If any of the above conditions are noted, especially if significant changes have occurred since the previous inspection, then the conditions should be repaired to lines and grades shown on the contract drawings and that non-conforming vegetation also is removed as part of the normal levee maintenance program.

2-02. Drainage and Irrigation Structures.

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

Location River Mileage	Size and Kind of Pipe	Location of Gate	Other Structure Description	Invert Below Crown
<u>Sacramento River, Con't.</u>				

16.49	10" Steel	-	Pump R.S.	5.8'
17.25	12" Steel	L.S.	Pump R.S.	4.0'
17.56	6" Steel	-	Pump R.S.	4.5'
17.69	6" Steel	-	-	3.8'
17.69	8" Steel	R.S.	-	6.4'
18.17	6" Steel	R.S.	-	3.5'
18.34	8" Steel	R.S.	Pump R.S.	5.7'
18.66	12" Steel	-	Pump R.S.	6.0'
19.04	8" Steel	R.S.	Pump R.S.	4.7'
19.29	6" Steel	R.S.	Pump R.S.	8.0'
19.29	7" Steel	-	-	5.4'
19.39	10" Steel	R.S.	-	5.8'
19.39	6" Steel	-	-	5.9'
19.63	5" Steel	R.S.	Pump R.S.	3.4'
19.76	7" Steel	R.S.	Pump R.S.	3.6'
20.03	7" Steel	R.S.	Pump R.S.	6.1'
20.24	12" Steel	-	Pump R.S.	3.0'
20.37	12" Steel	-	Pump R.S.	7.8'
20.49	2-1/2" Steel	-	Gas Line	5.7'
20.56	14" Steel	-	Pump R.S.	4.6'
20.60	8" Steel	R.S.	Pump R.S.	7.7'
20.79	2-1/2" G.I.	-	Domestic Supply - Pump R.S.	6.2'
20.99	10" Steel	-	-	2.8'
20.99	12" Steel	-	Pump R.S.	4.0'
21.27	5" Steel	R.S.	Pump R.S.	4.4'
21.58	7" Steel	R.S.	Pump R.S.	7.6'
21.76	5" Steel	R.S.	Pump R.S.	4.5'
21.86	8" Steel	-	Pump R.S.	5.7'
22.14	6" Steel	R.S.	Pump R.S.	6.0'
22.33	6" Steel	-	-	2.5'
22.33	12" Steel	-	Pump R.S.	4.0'
22.60	6" Steel	R.S.	Pump R.S.	3.5'
22.72	6" Steel	-	Siphon	3.5'
22.96	10" Steel	-	Gate R.S.	3.8'
23.03	6' x 6.5', Concrete	R.S.	Industrial Passageway	19.0'
23.03	10" Steel	R.S.	Industrial	12.5'
23.20	10" Steel	R.S.	Pump R.S.	4.8'
23.43	10" Steel	-	-	5.8'
23.43	5" Steel	-	-	7.5'
23.64	7" Steel	R.S.	Pump R.S.	10.5'
23.95	5" Steel	L.S.	Pump L.S.	3.4'
24.05	10" Steel	R.S.	Pump L.S.	3.8'
24.08	3" Steel	L.S.	Drainage Pump L.S.	8.0'
24.08	48" Steel	L.S.	Drainage Pump L.S.	12.0'
24.32	14" Steel	-	Pump R.S.	6.2'
24.32	3" G.I.	-	-	3.2'
24.32	10" Steel	R.S.	-	6.3'
24.48	6" Steel	R.S.	-	5.5'
24.52	5" Steel	R.S.	Pump R.S.	4.4'
24.66	8" Steel	-	Pump R.S.	5.7'
24.82	16" Steel	-	Pump L.S.	5.3'

Drainage and Irrigation Structures, Cont'd

Location River Mileage	Size and Kind of Pipe	Location of Gate	Other Structure Description	Invert Below Crown
<u>Sacramento River, Cont'd</u>				
24.88	6" Steel	R.S.	Pump R.S.	5.5'
25.09	6" Steel	R.S.	Pump R.S.	6.5'
25.11	9" Steel	R.S.	Pump R.S.	3.8'
25.40	12" Steel	-	Pump R.S.	4.0'
25.74	6" Steel	R.S.	Pump R.S.	7.5'
25.76	3" Steel	R.S.	Pump R.S. - Domestic	1.7'
25.97	10" Steel	-	-	6.5'
25.97	12" Steel	-	Pump R.S.	3.0'
26.25	8" Steel	R.S.	Pump R.S.	6.7'
26.40	8" Steel	R.S.	Pump R.S.	2.7'
26.62	10" Steel	-	Pump R.S.	2.8'
26.80	10" Steel	R.S.	Pump R.S.	5.0'
27.29	5" G.I.	R.S.	Pump R.S.	8.4'
27.30	2-1/2" G.I.	R.S.	Pump R.S. - Domestic	10.2'
27.59	12" Steel	-	Pump R.S.	5.0'
27.71	2-1/2" G.I.	-	Domestic	4.2'
27.91	12" Steel	-	-	5.0'
27.95	10" Steel	-	-	4.2'
28.11	6" Steel	R.S.	Pump R.S.	7.5'
28.33	7" Steel	-	Pump R.S.	6.4'
28.43	6" Steel	L.S.	Pump L.S.	6.5'
28.91	16" Steel	-	Pump R.S.	5.6'
28.91	10" Steel	-	-	8.0'
29.22	12" Steel	R.S.	Pump R.S.	6.0'
29.66	12" Steel	R.S.	Pump R.S.	8.8'
29.89	7" Steel	-	-	7.2'
29.94	7" Steel	-	-	4.6'
29.94	10" Steel	-	-	3.8'
30.30	12" Steel	R.S.	Pump R.S.	7.0'
30.53	12" Steel	R.S.	Pump R.S.	8.0'
30.76	12" Steel	R.S.	Pump R.S.	9.0'
31.10	12" Steel	-	-	5.2'
31.10	2-1/2" G.I.	-	-	5.2'
31.30	2-1/2" G.I.	-	Domestic	1.2'
31.39	12" Steel	-	-	15.0'
31.52	8" Steel	R.S.	Pump R.S.	3.7'
31.64	10" Steel	R.S.	Pump R.S.	4.2'
31.77	12" Steel	-	-	12.5'
31.77	12" Steel	-	-	6.0'
32.29	12" Steel	-	Pump R.S.	5.6'

Drainage and Irrigation Structures, Cont'd

Location River Mileage	Size and Kind of Pipe	Location of Gate	Other Structure Description	Invert Below Crown
<u>Steamboat Slough</u>				
26.06	10" Steel	-	Pump R.S.	6.6'
25.53	10" Steel	R.S.	-	3.8'
25.15	10" Steel	-	Pump L.S.	3.4'
24.79	12" Steel	-	Pump R.S.	8.8'
24.49	10" Steel	-	Pump R.S.	12.8'
24.24	10" Steel	R.S.	Pump L.S.	2.8'
24.24	7" Steel	-	Abandoned and Plugged	2.6'
24.05	12" Steel	R.S.	Pump R.S.	6.0'
23.97	14" Steel	-	Irrigation Siphon	4.2'
23.70	6" Steel	L.S.	Pump L.S.	1.5'
23.66	10" Steel	-	Pump R.S.	4.8'
23.55	10" Steel	-	Abandoned	4.2'
23.17	16" Steel	R.S.	Pump R.S.	6.3'
23.03	24" Steel	-	Irrigation Siphon	6.0'
23.03	18" Steel	-	Irrigation Siphon	5.5'
22.85	10" Steel	-	Abandoned	8.2'
22.85	12" Steel	-	Pump R.S.	4.0'
22.60	8" Steel	-	Abandoned	11.4'
22.21	4" Steel	-	Abandoned	4.4'
22.10	6" Steel	R.S.	Abandoned	6.5'
22.02	14" Steel	-	Pump R.S.	4.0'
21.97	10" Steel	R.S.	-	2.7'
21.97	14" Steel	-	Irrigation Siphon	4.2'
21.97	15" Steel	-	Abandoned	-
21.72	6" Steel	-	-	4.5'
21.20	10" Steel	-	Abandoned	8.0'
21.20	14" Steel	-	Abandoned	8.6'
21.19	18" Steel	-	Irrigation Siphon	9.7'
20.86	14" Steel	-	Irrigation Siphon	5.2'
20.44	16" Steel	-	Irrigation Siphon	6.3'
20.13	12" Steel	-	Irrigation Siphon	4.0'
19.83	18" Steel	-	Pump R.S.	4.5'
19.77	2-18" Steel	-	Pump R.S.	7.0'
19.56	18" Steel	-	Abandoned	5.5'
19.31	8" Steel	R.S.	Abandoned	2.7'
19.20	12" Steel	-	Irrigation Siphon	4.0'
19.06	14" Steel	-	Irrigation Siphon	3.1'
19.06	12" Steel	-	Irrigation Siphon	3.0'
18.89	12" Steel	-	Irrigation Siphon	3.0'
18.37	10" Steel	-	Irrigation Siphon	9.5'
18.24	9" Steel	-	Pump R.S.	3.0'

Drainage and Irrigation Structures, Cont'd

Location River Mileage	Size and Kind of Pipe	Location of Gate	Other Structure Description	Invert Below Crown
<u>Steamboat Slough, Cont'd</u>				
18.10	12" Steel	-	Irrigation Siphon	1.2'
17.99	18" Steel	-	Irrigation Siphon	3.5'
17.92	8" Steel	-	Irrigation Siphon	3.5'
17.79	12" Steel	-	Irrigation Siphon	3.5'
17.74	12" Steel	-	Irrigation Siphon	3.3'
17.74	16" Steel	-	Irrigation Siphon	4.7'
17.74	16" Steel	-	Irrigation Siphon	3.3'
17.39	16" Steel	-	Irrigation Siphon	6.4'
17.35	36" Steel	L.S.	Drainage Pump L.S.	11.4'
17.35	36" Steel	-	Drainage Pump L.S.	6.8'
17.35	42" Steel	-	Drainage Pump L.S.	5.1'
17.25	10" Steel	R.S.	Pump R.S.	4.8'
17.20	3" Steel	R.S.	Pump R.S.	1.8'
17.15	2-1/2" Steel	-	Abandoned	10.2'
17.07	14" Steel	-	Irrigation Siphon	5.2'
16.97	10" Steel	-	Abandoned	5.1'
16.97	18" Steel	-	Abandoned	5.5'
16.92	12" Steel	-	Irrigation Siphon	2.5'
16.92	16" Steel	-	Irrigation Siphon	2.9'
15.92	12" Steel	-	Irrigation Siphon	4.0'
15.58	12" Steel	-	Irrigation Siphon	3.0'
15.20	3-36" C.M.P.	-	Drainage	24.0'

Notes on abbreviations:

L.S. = Landside

R.S. = Riverside

G.I. = Galvanized Iron

C.M.P. = Corrugated Metal Pipe

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

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

## 2-03. Channel.

a. Description. The channels of the Sacramento River and Steamboat Slough, as described in paragraph 1-03 of this manual, are confined between levees along both banks in this reach. From the head of Steamboat Slough to Junction Point the channels are subject to ebb and flow of tides in this area. Since the channels are used for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channels shall be limited to flood control, and the requirements which follow shall be observed only to that extent.

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

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

It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood in excess of a reading of 17.0 on the gage located on the left bank of the Sacramento River, one-quarter mile upstream from the head of Snodgrass Slough or a reading of 10.0 on the gage located on the left bank of the Sacramento River at Walnut Grove 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 in the Sacramento River reaches the gage readings indicated above. The Superintendent shall cause readings to be taken at said gages at intervals of two to four hours during the period when the water surface is above the flood-flow stages 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 3-05 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 Crossings.

(a) Isleton Bridge crossing the Sacramento River at approximate river mile 18.6.

(b) Bridge crossing the Sacramento River at Walnut Grove.

(c) Bridge crossing Steamboat Slough at the head of Steamboat Slough.

(2) Utility Relocations. Because of the nature of the construction of the levees by local interests, no records of any utility relocations are available.

(3) Hydrographic Facilities.

(a) A continuous water stage recorder and staff gage to be maintained by the State Department of Water Resources that is located on the left bank of the Sacramento River, one-quarter mile upstream from the head of Snodgrass Slough.

(b) A continuous water stage recorder and staff gage to be maintained by the State Department of Water Resources that is located on the left bank of the Sacramento River at Walnut Grove.

(4) Ferry Crossing. Howard Landing Ferry crossing Steamboat Slough at approximate mile 20.5.

(5) Recreation Area. The Hogback Island Recreation Area shall be administered maintained in a manner consistent with good public park practices. Inspection of the premises shall be conducted at least annually by members of the Corps of Engineers and the State Reclamation Board on a mutually agreed schedule, to determine the adequacy of the operation and maintenance progress.

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

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

#### 2-05. Environment Protection.

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

b. Consistent with the standards established in this manual and those established by the State of California, all wild growth, including but not limited to, trees, shrubs and other vegetation within those project area where environmental easements have been obtained by local interests shall be preserved and retained. (Reference Site Miles 18.1, right bank, Sacramento River).

c. For locations with a vegetation variance zone designation in Exhibit A-2:

(1) The vegetation variance zone is defined as the levee prism plus 15 feet extending beyond the levee toes for a height of eight feet vertically. Laterally, the vegetation variance zone extends the distance of the willow planting site. Arroyo and Sandbar willow species planted within the vegetation variance zone in Exhibit A-2, will be permitted to grow without intervention until the willows meet the following:

(a) reach between two and four inches in diameter as measured 12 inches above the ground. Willow trunks shall be severed 12 inches above ground when between two and four inches. Willows shall not be permitted to grow in diameter greater than four inches when measured 12 inches above the ground. Decaying willow stumps within the vegetation variance zone shall not be removed to minimize disturbance to the riprap structure and adjacent willows. Care should be taken to minimize disturbance to the riprap structure during maintenance.

(b) impair visibility of the levee toe as detailed in the as-constructed drawings. When visibility of the toe is impaired or lost, willow branches shall be trimmed vertically from the ground up at the levee toe until the toe is visible for inspection. Vertical trimming shall not exceed eight feet in height from the ground up and will not be trimmed in such a way that threatens their survival (i.e. 'heading', trimming branches shorter or higher than what is reasonably necessary to monitor and inspect). This trimming is necessary to ensure an adequate access corridor without unnecessarily over trimming the willows.

(2) When maintained in accordance with this section of the O&M manual, the sponsor is not obligated to replant willow poles in the vegetation variance zone that do not survive.

(3) In the vegetation variance zone, only O&M manual compliant vegetation, arroyo and sandbar willows are allowed. The arroyo and sandbar willows shall be maintained such that the vegetation does not grow beyond the boundaries of the vegetation variance zone.

(4) The riprap placed below the planting shall be visually inspected to ensure no erosion, settling or scouring has taken occurred. If visual inspection is not possible, then hydrographic surveys or mechanical probing from the waterside by either waders or by boat shall be conducted. Examples of waterward soundings are included in Engineering Manual 1110-2-1003 or the most current USACE publication regarding hydrographic surveying. Repair of riprap shall be conducted in accordance with normal maintenance standards.

SECTION III  
REPAIR OF DAMAGE TO PROJECT WORKS AND  
METHODS OF COMBATING FLOOD CONDITIONS

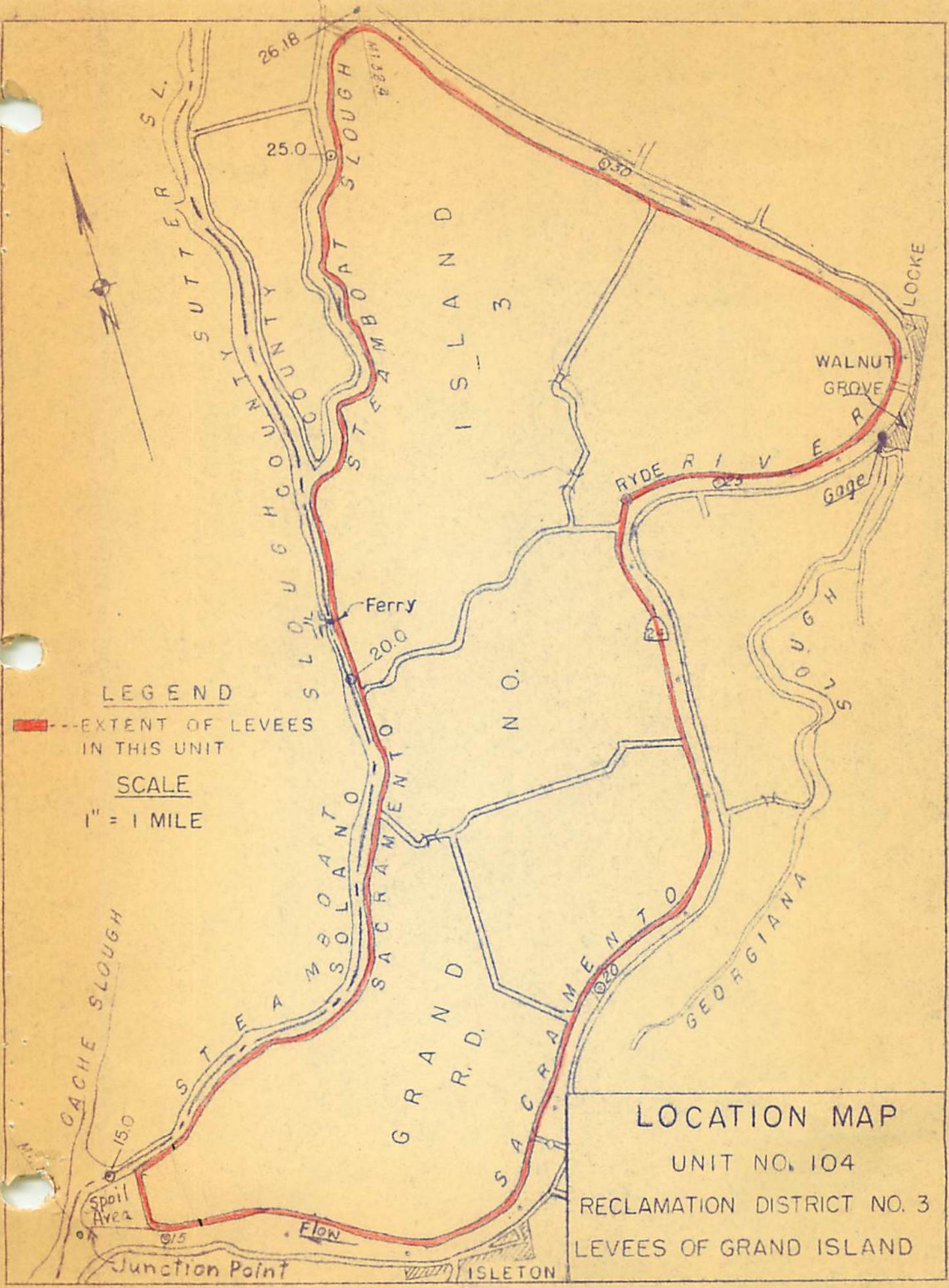
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Department of Water Resources, State of California,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

3-02. Applicable Methods of Combating Floods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Standard Manual, revised May 1955, where the subject is fully covered.

EXHIBIT A

FLOOD CONTROL REGULATIONS  
(See Standard Manual)

EXHIBIT A  
Unattached



**LEGEND**

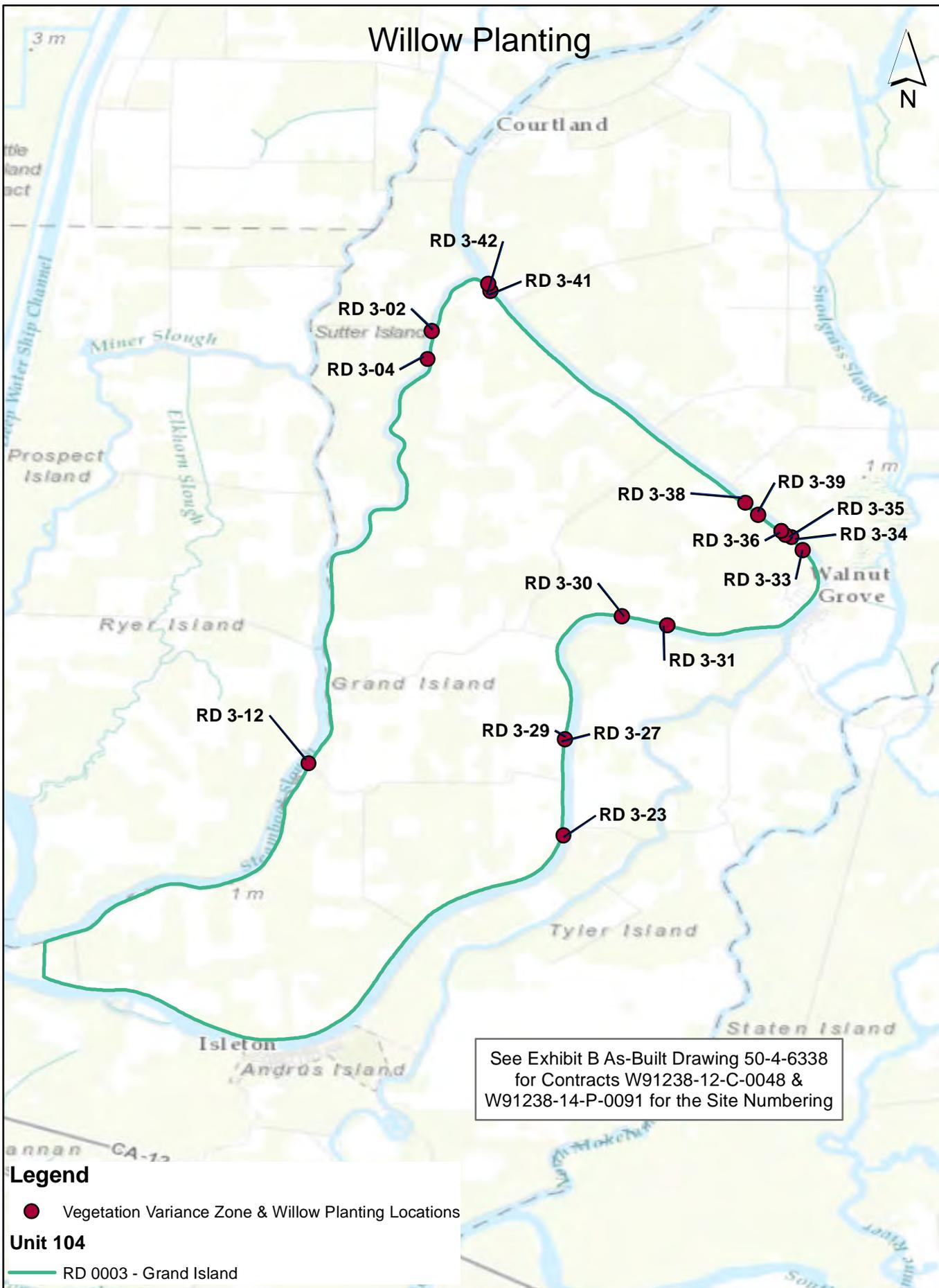
--- EXTENT OF LEVEES  
IN THIS UNIT

**SCALE**

1" = 1 MILE

**LOCATION MAP**  
 UNIT NO. 104  
 RECLAMATION DISTRICT NO. 3  
 LEVEES OF GRAND ISLAND

# Willow Planting



**Legend**

- Vegetation Variance Zone & Willow Planting Locations

**Unit 104**

- RD 0003 - Grand Island

By: Kaylee Peterson  
March 2016

Exhibit A-2 - Summary of As-Constructed Drawings (50-4-6338) for Willow Plantings - RD 3

NAD83				length (ft)	Punches	Vegetation Variance Zone
W91238-14-P-0091						
RD 3-02	Start	38.294425 N	121.58250 W	140	48	Yes
	End	38.294029 N	121.58264 W			
RD 3-04	Start	38.289305 N	121.58327 W	205	69	Yes
	End	38.288751 N	121.58322 W			
RD 3-12	Start	38.215080 N	121.60511 W	225	76	Yes
	End	38.215490 N	121.60477 W			
W91238-12-C-0048						
RD 3 - 23	Start	38.201850 N	121.55836 W	67	67	Yes
	End	38.202389 N	121.55827 W			
RD 3 - 27	Start	38.219470 N	121.55807 W	74	74	Yes
	End	38.220070 N	121.55798 W			
RD 3 - 29	Start	38.242070 N	121.54765 W	121	121	Yes
	End	38.241870 N	121.54644 W			
RD 3 - 30	Start	38.240410 N	121.53932 W	198	198	Yes
	End	38.239940 N	121.53751 W			
RD 3 - 31	Start	38.240410 N	121.53932 W	198	198	Yes
	End	38.239940 N	121.53751 W			
RD 3 - 33	Start	38.254250 N	121.51443 W	154	154	Yes
	End	38.255250 N	121.51544 W			
RD 3 - 34	Start	38.256533 N	121.51647 W	23	23	Yes
	End	38.256658 N	121.51664 W			
RD 3 - 35	Start	38.256950 N	121.51761 W	114	114	Yes
	End	38.257610 N	121.51839 W			
RD 3 - 36	Start	38.257720 N	121.51836 W	191	191	Yes
	End	38.258750 N	121.52009 W			
RD 3 - 37	Start	38.260720 N	121.52261 W	41	41	Yes
	End	38.260990 N	121.52290 W			
RD 3 - 38	Start	38.262890 N	121.52502 W	148	50	Yes
	End	38.262990 N	121.52556 W			
RD 3 - 39	Start	38.257720 N	121.51836 W	98	98	Yes
	End	38.263520 N	121.52630 W			
RD 3 - 41	Start	38.301820 N	121.57179 W	31	31	Yes
	End	38.302020 N	121.57194 W			
RD 3 - 42	Start	38.303068 N	121.57217 W	94	94	Yes
	End	38.303795 N	121.57279 W			

## EXHIBIT B

### “AS CONSTRUCTED” DRAWINGS

See separate folder for the following drawings:

<u>File No.</u>	<u>Title</u>
6-4-1596	Bank Protection Mile 15.7R, 1 sheet.
6-4-1597	Bank Protection Mile 15.9R, 1 sheet.
50-4-1750	Bank Protection at Berlin’s Mile 22.5R, 1 sheet.
50-4-1751	Bank Protection 0.4 miles below Ryde Mile 23.75R, 1 sheet.
50-4-1753	Bank Protection at Metson’s Mile 32.1R, 1 sheet.
50-4-1833	Bank Protection Grand Island Mile 31R, 1 sheet.
50-4-2020	Bank Protection below Ryde Mile 24.0R, 1 sheet.
50-4-2659	Bank Protection and Levee Setback, Grand Island. Mile 16.0 to Mile 16.3, 1 sheet.
50-4-2759	Right Bank Sacramento River Mile 30.5, 1 sheet.
50-4-2760	Right Bank Sacramento River Mile 28.5, 1 sheet.
50-4-2766	Right Bank Sacramento River Mile 29.5, 1 sheet.
50-4-2977	Right Bank Sacramento River on Grand Island Between Junction Point & Steamboat Slough, Sheets 1 to 21, incl.
50-4-2302	Bank Protection on Steamboat Slough, Mile 16.8L, 1 sheet.
50-4-3043	Grand Island, Stone Protection along Steamboat Slough, Sheets 1 to 16, incl.

Additional drawings of cross-sections, structures, and miscellaneous facilities are available in the Office of the District Engineer.

50-4-3614	Bank Protection and levee construction at critical locations, right bank Sacramento River (Site D), Sheet 3.
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- 50-4-3741 Stone protection at various locations between Sacramento and Rio Vista, sheets 4, 5 and 7
- 50-4-3848 Bank Protection, Right and Left Banks Sacramento River, Various Locations between Sacramento and Isleton, in 32 sheets (Unit No. 6).
- 50-4-4008 Bank Protection, Right and Left Banks Steamboat Slough from Sacramento River to Cache Slough, in 41 sheets.
- 50-4-4047 Bank Protection, Right and Left Banks, Sacramento River, Various sites between Sacramento and Rio Vista, in 24 sheets.
- 50-4-4476 Bank Protection, Critical Locations, Right and Left Banks, Sacramento River, Mile 12.4 Left to Mile 53.3 Right, in 12 sheets.
- 50-4-4283 Bank Protection, Various Locations, Right and Left Banks, Sacramento River and Georgiana Slough, in 34 sheets.
- 50-4-4378 Bank Protection, Various Locations, Right and Left Banks, Sacramento River between mile 24.7 and 53.7, in 23 sheets.
- 50-4-4487 Bank Protection, Various Locations, Right and Left Banks, Sacramento River from Mile 53.3 to Rio vista, in 24 sheets.
- 50-4-4687 Bank Protection, Various Locations Right and Left Banks, Sacramento River Mile 55.0 to Mile 16.0, in 28 sheets.
- 50-4-4768 Bank Protection, Various Locations on Sutter, Steamboat, Miner and Georgiana Sloughs, in 33 sheets.
- 50-4-4898 Bank protection, Various Locations, Right and Left Banks, Sacramento River, Between Mile 12.0 and Mile 58.0, in 43 sheets.
- 50-4-5164 Bank Protection, Various Locations, Right and Left Banks, Miner, Sutter and Steamboat Slough, in 22 sheets.
- 50-4-5347 Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 15.0 to Mile 60.0, in 33 sheets.
- 50-4-5541 Bank Protection, Various Locations, Right and Left Banks, Miner, Sutter, Steamboat and Elk Sloughs.
- 50-4-5697 Bank Protection, Unit 37, Right and Left Banks, Sacramento River and Tributaries, Mile 0.0 to Mile 62.0, in 55 sheets.

- 50-4-5777 Bank Protection, Contract 41A, Right and Left Banks, Sacramento River Mile 15.0 to Mile 30.0 and Tributaries, in 59 sheets.
- 50-4-5784 Bank Protection, Contract 42, Right and Left Banks, Sacramento River Mile 7.8 to Mile 56.0 and Tributaries, in 75 sheets.
- 50-4-5813 Construction, Right Bank, Sacramento River, Miles 23.8 and 22.4.
- 50-4-6270 PL 84-99 Levee Rehabilitation Program SN 2/RD3, in 18 sheets.
- 50-4-6338 PL 84-99 Willow Planting (Total of 75 sheets, for RD 3, RD 17, RD 150, RD 551 and RD 755)

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS  
(See Standard Manual)

EXHIBIT C  
Unattached

**EXHIBIT D**

**CHECK LIST NO. 1  
LEVEE INSPECTION REPORT  
(See Standard Manual)**

**EXHIBIT D  
Unattached**

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. 104

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

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

INSTRUCTIONS FOR COMPLETING SHEET 2, EXHIBIT E  
(To be printed on back of Sheet 2)

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate 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. 104

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

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

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

INSTRUCTIONS FOR COMPLETING SHEET 4, EXHIBIT E  
(To be printed on back of Sheet 4)

- Item (a) Indicate station of observation obtained by pacing from nearest reference point.
- Item (b) Note nature, extent, and size of vegetal growth within the limits of flood flow channel.
- Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, fouling of the tainter gates, or the bridges over the channel.
- Item (d) Report any construction along the diversion channel or above the diversion 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. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken since last inspection	(a) Comments
16.49	Rt.						
17.25	"						
17.56	"						
17.69	"						
17.69	"						
18.17	"						
18.34	"						
18.66	"						
19.04	"						
19.29	"						
19.29	"						
19.39	"						
19.39	"						
19.63	"						
19.76	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of right-of-way adjacent to Structure	(g) Repair Measures Taken Since last Inspection	(h) Comments
20.03	Rt.				<u>Sacramento River</u>		
20.24	"						
20.37	"						
20.49	"						
20.56	"						
20.60	"						
20.79	"						
20.99	"						
20.99	"						
21.27	"						
21.58	"						
21.76	"						
21.86	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Location by River Mileage	Bank	Debris or other obstruction to flow	Damage or settlement of pipe or conduit	Condition of Concrete Headwall or Invert Paving	Condition of right-of-way adjacent to Structure	Repair Measures Taken Since last Inspection	Comments
22.14	Rt.				<u>Sacramento River</u>		
22.33	"						
22.33	"						
22.60	"						
22.72	"						
22.96	"						
23.03	"						
23.03	"						
23.20	"						
23.43	"						
23.43	"						
23.64	"						
23.95	"						
24.05	"						
24.08	"						
24.08	"						
24.32	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of right-of-way adjacent to Structure	(g) Repair Measures Taken Since last Inspection	(h) Comments
24.48	Rt.				<u>Sacramento River</u>		
24.52	"						
24.66	"						
24.82	"						
24.88	"						
25.09	"						
25.11	"						
25.40	"						
25.74	"						
25.76	"						
25.97	"						
25.97	"						
26.25	"						
26.40	"						
26.62	"						
26.80	"						
27.29	"						
27.30	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken Since last inspection	(h) Comments
27.59	Rt.						
27.71	"						
27.91	"						
27.95	"						
28.11	"						
28.33	"						
28.43	"						
28.91	"						
28.91	"						
29.22	"						
29.66	"						
29.89	"						
29.94	"						
29.94	"						
30.30	"						
30.53	"						
30.76	"						
31.10	"						
31.10	"						
31.30	"						
31.39	"						
31.52	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken Since last Inspection	(h) Comments
31.64	Rt.						
31.77	"						
31.77	"						
32.29	"						
26.06	It.						
25.53	"						
25.15	"						
24.79	"						
24.49	"						
24.24	"						
24.05	"						
23.97	"						
23.70	"						
23.66	"						
23.55	"						
23.17	"						
23.03	"						
23.03	"						
22.85	"						
22.85	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken Since last Inspection	(h) Comments
22.60	Lt.						
22.21	"						
22.10	"						
22.02	"						
21.97	"						
21.97	"						
21.97	"						
21.72	"						
21.20	"						
21.20	"						
21.19	"						
20.86	"						
20.44	"						
20.13	"						
19.83	"						
19.77	"						
19.56	"						
19.31	"						
19.20	"						
19.06	"						
19.06	"						

Steamboat Slough, (Cont'd)

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures Taken Since last Inspection	(h) Comments
18.89	lt.						
18.37	"						
18.24	"						
18.10	"						
17.99	"						
17.92	"						
17.79	"						
17.74	"						
17.74	"						
17.74	"						
17.39	"						
17.35	"						
17.35	"						
17.35	"						
17.25	"						
17.20	"						
17.15	"						
17.07	"						
16.97	"						
16.97	"						
16.92	"						
16.92	"						

Steamboat Slough, (Cont'd)

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 104

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

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a)	Location By River Mileage	15.92 15.58 15.20
(b)	Bank	It. " "
(c)	Debris or other obstruction to flow	
(d)	Damata or settlement of pipe or conduit	
(e)	Condition of concrete headwall or invert paving	<u>Steamboat Slough, (Cont'd)</u>
(f)	Condition of right-of-way adjacent to structure	
(g)	Repair Measures Taken Since last Inspection	
(h)	Comments	

INSTRUCTIONS FOR COMPLETING SHEET 6, EXHIBIT E  
(To be printed on back of sheets 6 to 14, incl)

- (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 TRANSFER TO  
THE STATE RECLAMATION BOARD**

**EXHIBIT F**



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

NOV 29 2016

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

Dear Ms. Gallagher:

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. G. Ray", with a long horizontal flourish extending to the right.

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

Enclosures

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

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

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

**Standard O&M Manual San Joaquin River**

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



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

JUL 15 2016

Executive Office

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

Dear Ms. Gallagher:

The U.S. Army Corps of Engineers has completed a portion of work under Public Law (PL) 84-99, Flood Control and Coastal Emergencies (FCCE) (33 U.S.C 701n) (69 Stat. 186) for emergency management activities, specifically, rehabilitation and associated mitigation of flood risk reduction projects. Mitigation willow plantings were made at various vegetation variance zone sites within Reclamation Districts (RD) 3, RD 17, RD 150, RD 551 and RD 755.

The mitigation willow plantings were completed under Contracts No. W91238-12-C-0048 and W91238-14-P-0091 by Erick Ammon, Inc. The subject flood risk reduction rehabilitation projects are considered complete as of the date of this letter. As-constructed drawings and revisions to the O&M Manuals for each respective RD are enclosed. The Central Valley Flood Protection Board shall continue to operate and maintain the completed rehabilitation effort as part of the project.

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

Sincerely,

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

Enclosures



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

REPLY TO  
ATTENTION OF

Flood Protection and Navigation Section

Mr. Jay Punia, General Manager  
The Reclamation Board  
State of California  
3310 El Camino Avenue, Room LL40  
Sacramento, California 95821

OCT 05 2007

Dear Mr. Punia:

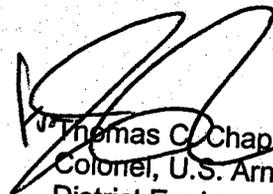
This letter is to transfer the U.S. Army Corps of Engineers (Corps) recently completed portion of work performed under the PL 84-99, Flood Control and Coastal Emergencies (FCCE) (33 U.S.C. 701n) (69 Stat. 186) for emergency management activities. Emergency repairs were made at 8 different sites to rehabilitate a total of 1165-feet of eroded levee slope that surround Grand Island. Located within Reclamation District 3, repairs were made to the water side levee slope along the left bank of Steamboat Slough (Unit 1) and along the right bank of the Sacramento River (Unit 2). 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 3*, dated August 2006.

This work meets the requirements of the existing Operation and Maintenance Manuals (O&M) for the PL 84-99 Rehabilitation and Inspection Program (RIP); and therefore, said flood control work is transferred as of the date of this letter to the State of California for operation, maintenance, repair, replacement, and rehabilitation (OMRR&R).

The repairs were completed by Wood Brothers Inc, in accordance with Specification Number 1138E, Design File Number 50-04-6270, Contract Number W91238-06-D-0008, and Task Order Number 0003. As-designed drawings and revisions to the Operation and Maintenance Manual are enclosed.

If you have any questions regarding this project, please contact the Project Manager, Mr. Lester Schmittner at (916) 557-7812. If you have any questions regarding this transfer, please contact Ms. Meegan Nagy at (916) 557-7257 or Mr. Robert Murakami, Flood Protection and Navigation Section at (916) 557-6738.

Sincerely,

  
Thomas C. Chapman, P.E.  
Colonel, U.S. Army  
District Engineer

Enclosure

CF: Mr. Ken Pucci, Reclamation District 3, P.O. Box 1011, Walnut Grove, CA 95690-1011

Unit 104

cc:  
CESPK-PM-C (Schmittner)  
CESPK-CO-OR (Murakami)  
CESPK-CO-OR (Strickland)  
CESPK-CO-RS  
CESPK-ED  
CESPK-ED-D  
CESPK-PM  
✓CESPK-PD-A (Ngim)

MURAKAMI/dd  
NAGY  
SANDNER  
MAHONEY  
STRICKLAND  
SCHMITTNER  
KORMAN  
COWAN  
RICHERT  
ALTENDORF  
PORTER  
CHAPMAN

*Unit 104*

January 24, 1992

Navigation and Flood Control Unit

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

*msf*

Members of the Board:

This is in regard to the joint inspection of January 9, 1992, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project to the State of California for operation and maintenance.

The completed work consists of the construction of dredge berms (Contract 42M3 of Separable Element 41) on the Sacramento River right bank at Site Mile 32.0 and on Steamboat Slough left bank at Site Miles 23.8 and 22.4. The berm on the Sacramento River at Site Mile 32.0 is protected with a precast concrete wall. The berms on Steamboat Slough are protected with a timber log and pile wall at Site Mile 23.8 and a timber pile and used tire wall at Site Mile 22.4. The work was completed on December 30, 1991, in accordance with Contract Number DACW05-91-C-0088, Specification Number 8679, and Drawing Number 50-4-5813.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore said work together with the waterway bank contiguous thereto is transferred as of the date of this letter to the State of California for operation and maintenance.

*Unit 109*



This work and any special operation and maintenance requirements will be added by amendment to the Operation and Maintenance Manual, Supplement Number 104, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Laurence R. Sadoff  
Colonel, Corps of Engineers  
District Engineer

Copies Furnished

- ✓ Department of Water Resources, ATTN: G. Snow, 3201 S Street, Sacramento, California 95816-7017
- ✓ Department of Water Resources, ATTN: G. Qualley, 1416 Ninth Street, Sacramento, California 95814
- ✓ Department of Water Resources, ATTN: M. Peterson, 1415 Ninth Street, Sacramento, California 95814

- cc:
- ✓ Nav and Fld Control Unit
  - ✓ Central Valley Sect
  - ✓ Prog Dev
  - ✓ F&A Br
  - ✓ Valley Res Ofc

*Rak*  
KELLY/ms

*AS*  
A. SMITH

*HBM*  
HEBM

WINTON *F*

*DS*  
DENNIS

MASON *[Signature]*

*[Signature]*  
SADOFF

LU#DREDGE

*Unit 104*

November 16, 1989

Navigation and Flood Control Unit

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

*not*

Members of the Board:

This is in regard to the joint inspections of November 8 & 9, 1989, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 42) to the State of California for operation and maintenance. The flood control work consists of bank sloping, placement of stone protection and miscellaneous work on the Sacramento River right bank at Site Miles 23.6, 26.7, 42.7, 43.5, 56.5 and 56.7 and left bank at Site Miles 20.2, 33.3 and 36.1; Georgiana Slough right bank at Site Miles 7.9 and 8.1 and left bank at Site Miles 4.8 and 11.7; Steamboat Slough right bank at Site Mile 22.1 and left bank at Site Miles 19.8, 23.2 and 25.9, and Sutter Slough left bank at Site Mile 22.2.

The sites were completed on November 8, 1989, in accordance with Contract Number DACW05-89-C-0037, Specification Number 8259 and Drawing Number 50-4-5784.

*11-14-89*  
ROMPALA/mt

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of November 9, 1989 to the State of California for operation and maintenance.

*in for*  
KELLY  
A. SMITH  
*[Signature]*  
HEIN

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 103, 104, 110, 111, 113, 114 and 116, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

FAST

- cc: ~~D-O Div~~; ~~Fld Cntrl Unit~~;
- ~~Central Valley Sec~~; ~~Prog Dev~~;
- ~~F&A Br~~; ~~Valley Res ofc~~; ~~Reading~~

Sincerely,

Jack A. Le Cuyer  
Colonel, Corps of Engineers  
District Engineer

DENNIS  
MASON  
*[Signature]*  
Le CUYER

*Units 103, 104, 110, 111, 113, 114, 116*

Copies Furnished:

DWR, ATTN: G. Snow; DWR, ATTN: G. Qualley; Cdr, SPD, ATTN: CESP-D-0;  
Cdr, USACE, ATTN: DAEN-CECW-OM

PC#LTRUNIT42

*2*



C

September 29, 1988

Navigation and Flood Control Unit

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

*msj*

Members of the Board:

This is in regard to the joint inspection of September 7, 1988, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 41A), to the State of California for operation and maintenance. The flood control work consists of bank sloping and placement of stone protection on Sutter Slough right bank at Site Mile 22.5; Steamboat Slough right bank at Site Miles 21.1 and 22.9 and Sacramento River right bank at Site Mile 23.2 and left bank at Site Miles 19.2 and 19.7.

The sites were completed on August 12, 1988, in accordance with Contract Number DACW05-87-C-0079, Specification Number 8054 and Drawing Number 50-4-5777.

*9-28*  
BOMPALA/mt

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), and Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of September 29, 1988 to the State of California for operation and maintenance.

*ck*  
KELLY

*AS*  
A. SMITH

*HEIM*  
HEIM

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 103, 104, 105 and 110, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

*J*  
FAST

*DENNIS*  
DENNIS

*MASON*  
MASON  
*CZARZASTY*  
CZARZASTY

Sincerely,

Jack A. Le Cuyer  
Colonel, Corps of Engineers  
District Engineer

*LE CUYER*  
LE CUYER

Copies Furnished:

- DWR, ATTN: G. Snow
- DWR, ATTN: G. Qualley
- ✓Commander, South Pacific Division, ATTN: CESP-D-0
- ✓Commander, USACE, ATTN: DAEN-CECW-OM
- cc:

- Flood Control Unit
- ✓Civ Des Sec D (Pahl)
- ✓Prog Dev
- ✓F&A Br
- ✓Valley Res Ofc
- ✓C-O Div
- ✓Reading

*Units 103, 104, 105, 110*

WANG #0794a

*J. J.*



DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD1416 - 9th Street, Room 455-6  
Sacramento, CA 95814  
(916) 445-9454

MAR 18 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 December 13, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 37 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 the following sites.

## SACRAMENTO RIVER

Left Bank: Sites Miles 8.5, 10.4, 17.9, 19.1, 20.5, 21.4, 21.6, 23.4, 24.1, 36.0, 36.2, and 40.0

Right Bank: Sites Miles 15.9, 16.0, 17.6, 18.2, 27.2, 27.6, 31.0, 33.5, 34.6, 43.9, 44.9, and 45.2

## STEAMBOAT SLOUGH

Left Bank: Site Mile 25.3

Right Bank: Sites Miles 15.9, 16.0, 16.8, 17.1, 19.8, and 25.3

## SUTTER SLOUGH

Right Bank: Site Mile 22.0

## GEORGIANA SLOUGH

Left Bank: Site Mile 12.1

*Amis 101, 102, 103, 104,  
105, 110, 111, 112, 114*

Colonel Wayne J. Scholl  
Page 2

MAR 18 1986

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5697, Specification No. 7014, and Contract No. DACW 05-84-C-0104, insofar as could be determined visually.

The Reclamation Board, at its regular meetings of December 20, 1985, and January 17, 1986, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance, with the exception of Site Mile 16.0, Right Bank, Sacramento River.

A joint inspection was made on December 5, 1985 which included Site Mile 16.0. During this inspection, several large slumps in the rock revetment were observed. It was agreed that the slumps in the rock revetment would be repaired in conjunction with deficiencies noted at various other sites. For some reason, your contractor overlooked the repairs required at this site.

Mr. Sterling Olsen of the Valley Resident's Office has indicated that this site will be repaired in the spring of 1986. When this site has been repaired, we will be pleased to accept it for operation and maintenance.

If you have any questions concerning the above, please contact me at (916) 445-9454 or Mr. Richard Goodnight at (916) 445-9335.

Sincerely,



RAYMOND E. BARSCH  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

cc: Mr. Ralph Cameron  
Resident Engineer  
Valley Resident's Office  
U. S. Army Corps of Engineers  
P. O. Box 935  
West Sacramento, CA 95691

*Units 101, 102, 103, 104,  
105, 110, 111, 112, 114*

December 13, 1985

Navigation and Flood Control Unit

*not*

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

Members of the Board:

This is in regard to the joint inspections of December 20, 1984, November 26, 1985 and December 6, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 37), 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 15.9, 16.0, 17.6, 18.2, 27.2, 27.6, 31.0, 33.5, 34.6, 43.9, 44.9 and 45.2 and left bank at Site Miles 8.5, 10.4, 17.9, 19.1, 20.5, 21.4, 21.6, 23.4, 24.1, 36.0, 36.2 and 40.0; Steamboat Slough right bank at Site Miles 15.9, 16.0, 16.8, 17.1, 19.8 and 25.3 and left bank at Site Mile 25.3; Sutter Slough right bank at Site Mile 22.0; and Georgiana Slough left bank at Site Mile 12.1.

The sites were completed during the past construction season in accordance with Contract Number DACW05-84-C-0104, Specification Number 7014 and Drawing Number 50-4-5697.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of December 13, 1985 to the State of California for operation and maintenance.

*Units 101, 102, 103,  
104, 105, 110, 111, 112, 114*



This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 101, 102, 103, 104, 105, 110, 111, 112 and 114, 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

12-13  
ROMPALA/mg

REC  
KELLY

Copies Furnished:

DWR, ATTN: G. Snow  
DWR, ATTN: J. Angel  
Commander, South Pacific Division, ATTN: SPDCO-0  
Commander, USACE, ATTN: DAEN-CWO-0

A. SMITH

cc:  
Flood Control Unit  
Engr Div  
Civ Des Sec D (Pahl)  
Prog Dev  
F&A Br  
Valley Res Ofc  
C-0 Div  
Reading

HEP

FAST

DEWIS

WILLIAM

Reclamation Board

Rompala N&F.C.U.

<p>SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.</p> <p>(CONSULT POSTMASTER FOR FEES)</p> <p>The following service is requested (check one).</p> <p><input type="checkbox"/> Show to whom and date delivered .....</p> <p><input type="checkbox"/> Show to whom, date, and address of delivery .....</p> <p><input type="checkbox"/> RESTRICTED DELIVERY .....</p> <p><small>(The restricted delivery fee is charged in addition to the return receipt fee.)</small></p>		<p>TOTAL \$</p>	
<p>3. ARTICLE ADDRESSED TO: State of California 1416 - 9th Street, Rm 455-6 Sacramento, California</p>		<p>ARTICLE NUMBER 783773</p>	
<p>4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> EXPRESS MAIL</p>		<p><input type="checkbox"/> INSURED <input type="checkbox"/> COD</p>	
<p>I have received the article described above.</p>			
<p>SIGNATURE <i>R. L. Manning</i></p>		<p>7a. EMPLOYEE'S INITIALS</p>	
<p>5. DATE OF DELIVERY DEC 17 1983</p>		<p>POSTMARK (may be on reverse side)</p>	
<p>6. ADDRESSEE'S ADDRESS (Only if requested)</p>		<p>7. UNABLE TO DELIVER BECAUSE:</p>	

SCHOLL

WANG #2977a

Units  
101, 102, 103, 104,  
105, 110, 111, 112, 114



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

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REPLY TO  
ATTENTION OF SPKCO-0

16 November 1982

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

Gentlemen:

This is in regard to the joint inspection of 10 November 1982 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 36), to the State of California for Operation and Maintenance. The flood control work consists of levee bank sloping and placement of stone protection on Steamboat Slough left bank at Site Miles 17.4, 17.8, 20.6, 22.4, 23.8 and 25.6 and on Elk Slough left bank at Site Mile 2.1. The sites were completed during the 1982 construction season in accordance with Contract No. DACW05-80-C-0113, Specification No. 5747 and Drawing No. 50-4-5541.

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 10 November 1982 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 104 and 112, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

HENRY LEE  
Lieutenant Colonel, CE  
Acting District Engineer

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

EXHIBIT F

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

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



DEC 22 1978

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 December 14, 1978, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 33 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of December 12, 1978.

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 15.5, 17.4, 21.5, 23.4 and 27.4 Right Bank, and Sites Miles 19.9, 20.4, 21.0, 22.0, 22.2, 23.6, 27.8 and 29.8 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5347, Specification No. 5269, and Contract No. DACW 05-77-C-0101, insofar as could be determined visually.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units 103/104/111*  
*Edmond G. Brown Jr.*  
*Gov. of California*  
*Back into cert mail*  
*308 373*





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

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REPLY TO  
ATTENTION OF

**SPKCO-0**

**12 December 1978**

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

**Gentlemen:**

This is in regard to the joint inspection of 22 November 1978, made for the purpose of transferring a portion of the Sacramento River Bank Protection (Unit No. 33), to the State of California for operation and maintenance. The flood control work consists of levee and bank sloping and placement of stone protection on the Sacramento River right bank at site miles 15.5, 17.4, 21.5, 23.4, and 27.4 and left bank at site miles 19.9, 20.4, 21.0, 22.0, 22.2, 23.6, 27.8, and 29.8. The sites described on the inclosure were completed on 22 November 1978 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269, and Drawing No. 50-4-5347.

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 12 December 1978 to the State of California for operation and maintenance.

This portion of the work will be added by amendments to the Operations and Maintenance Manual, Supplement Nos. 103, 104, and 111, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

**DONALD M. O'SHEI**  
Colonel, CE  
District Engineer

Copy furnished:  
DWR, ATTN: R. Franson  
DWR, ATTN: R. Potter

**EXHIBIT F**

**Summary of Sacramento River  
 Bank Protection Project  
 Portion of Unit 33  
 Sacramento River**

Right Bank

<u>Site</u>	<u>Stone Protection</u>	<u>L.F.</u>
* 15.5	Sta 68+95 to Sta 80+85	1190
17.4	Sta 71+50 to Sta 80+50	900
21.5	Sta 5+15 to Sta 13+30	815
23.4	Sta 0+85 to Sta 18+00	1715
* 27.4	Sta 6+00 to Sta 20+25	1425

Left Bank

19.9	Sta 184+30 to Sta 189+20	490
20.4	Sta 157+70 to Sta 161+60	390
21.0	Sta 122+25 to Sta 132+65	1040
22.0	Sta 67+85 to Sta 69+75	190
22.2	Sta 55+75 to Sta 61+00	525
23.6	Sta 90+25 to Sta 98+35	810
27.8	Sta 2+60 to Sta 11+50	890
29.8	Sta 185+75 to Sta 191+45	570

\* = EXTENDED

**DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD**

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



NOV 7 1977

Colonel Donald M. O'Shei  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Colonel O'Shei:

At its regular meeting of October 25, 1977, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 31 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letters of October 4 and 21, 1977.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 1.0 and 2.4 Left Bank, 6.0 and 6.5 Right Bank on Miner Slough; 22.7, 23.0, 23.7, 23.9, 24.8, 25.4 and 26.4 Left Bank, 22.6, 26.4, 27.0 and 27.9 Right Bank on Sutter Slough; and 15.7 Left Bank, 18.3, 20.9, 21.0, 23.0, 23.9 and 24.0 Right Bank on Steamboat Slough.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5164, Specification No. 5106, and Contract No. DACW 05-77-C-0046, insofar as could be determined visually.

Sincerely,

PAUL L. CLIFTON  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED



Units 104, 105,  
110, 113

10/11/77  
10

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
PORTION OF UNIT 31

SUTTER SLOUGH LEFT BANK

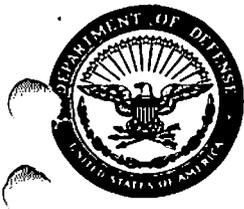
<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
22.7	64+50 to 78+00	1350
23.0	46+00 to 50+40	440
23.7 & 23.9	0+00 to 16+00	1600
24.8	-0+50 to 3+00	350
25.4	0+00 to 2+00	200
26.4	-0+25 to 3+50	375

STEAMBOAT SLOUGH RIGHT BANK

23.0	0+00 to 3+20	320
23.9	-0+50 to 2+20	270
24.0	0+00 to 2+90	290

STEAMBOAT SLOUGH LEFT BANK

15.7	6+70 to 10+50	380
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C  
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YDEPARTMENT OF THE ARMY  
SACRAMENTO DISTRICT, CORPS OF ENGINEERS  
650 CAPITOL MALL  
SACRAMENTO, CALIFORNIA 95814C  
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YREPLY TO  
ATTENTION OF  
SPKCO-0

4 October 1977

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

—  
Gentlemen:

This is in regard to the joint inspection of 3 October 1977, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project, (Unit No. 31), to the State of California for operation and maintenance. The flood control work consists of levee and bank sloping and placement of stone protection on the Sutter Slough left bank at Site Miles 22.7, 23.0, 23.7, 23.9, 24.8, 25.4, and 26.4 and on the Steamboat Slough right bank at Site Miles 23.0, 23.9, and 24.0 and left bank at Site Mile 15.7. The sites, as described on the inclosure, were completed on 3 October 1977 in accordance with Contract No. DACW05-77-C-0046, Specification No. 5106 and Drawing No. 50-4-5164.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL86-645, 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 3 October 1977 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 104 and 110, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

DONALD M. O'SHEI  
Colonel, CE  
District Engineer

Copy furnished:  
DWR, ATTN: R. Franson  
R. Potter

EXHIBIT F

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
PORTION OF UNIT 31

SUTTER SLOUGH LEFT BANK

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
22.7	64+50 to 78+00	1350
23.0	46+00 to 50+40	440
23.7 & 23.9	0+00 to 16+00	1600
24.8	-0+50 to 3+00	350
25.4	0+00 to 2+00	200
26.4	-0+25 to 3+50	375

STEAMBOAT SLOUGH RIGHT BANK

23.0	0+00 to 3+20	320
23.9	-0+50 to 2+20	270
24.0	0+00 to 2+90	290

STEAMBOAT SLOUGH LEFT BANK

15.7	6+70 to 10+50	380
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STATE OF CALIFORNIA  
THE RECLAMATION BOARD

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December 14, 1976

Colonel Donald M. O'Shei  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Colonel O'Shei:

The Reclamation Board at its regular meeting of December 10, 1976, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 28 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of December 2, 1976.

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

Sites Miles 12.9, 13.1, 14.9, 15.3 and 18.6 Left Bank, Sacramento River, in the Brannan Andrus Levee Maintenance District.

Sites Miles 17.3, 17.7, 18.1, 19.1 26.4, 27.0, 27.7 and 32.3 Right Bank, Sacramento River and Site Mile 24.8 Left Bank, Steamboat Slough, in Reclamation District No. 3.

Site Mile 40.4 Right Bank, Sacramento River, in Reclamation District No. 150.

Site Mile 33.1 Right Bank, Sacramento River, in Reclamation District No. 349.

Sites Miles 32.1 and 34.1 Left Bank, Sacramento River, in Reclamation District No. 551.

Sites Miles 26.7 and 27.2 Left Bank, Sacramento River, in Reclamation District No. 554.

Sites Miles 23.1, 25.1 and 26.4 Left Bank, Sacramento River, in Reclamation District No. 556.

Sites Miles 40.3 Left Bank and 50.4 Right Bank, Sacramento River, modified irrigation facilities only.

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Y

Colonel Donald M. O'Shei  
Page 2

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4898, Specification No. 4539, and Contract No. DACW 05-76-C-0015, insofar as could be determined visually.

Sincerely,

/s/ Paul L. Clifton  
PAUL L. CLIFTON

SPKCC-0



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

*Handwritten initials*

Gentlemen:

Reference is made to the joint inspections of 30 November and 1 December 1976, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 28) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles: 12.9, 13.1, 14.9, 15.3, 18.6, 23.1, 25.1, 26.4, 26.7, 27.2, 32.1, and 34.1, and right bank at Site Miles 17.3, 17.7, 18.1, 19.1, 26.4, 27.0, 27.7, 32.3, 33.1, and 40.4; the irrigation facilities at Site Miles 40.3 left and 50.4 right and the Steamboat Slough left bank at Site Mile 24.8. The sites, as listed on the inclosure, were completed on 21 November 1976 in accordance with specification No. 4559, Contract No. DACN05-76-C-0015; Drawing No. 50-4-4598.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL. 86-545, 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 2 December 1976 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. 102, 103, 104, 110, 111 and 112 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

DONALD H. O'SHEI  
Colonel, CE  
District Engineer

*M* ROMPALA/pl  
*M* McBRIDE  
A. SMITH  
HENSON  
PROFASCO  
CREMER  
8 O'SHEI

*Copy to Kawaya  
25-1-77*

*Units 102,  
103, 104,  
110, 111, 112*

1 Incl  
As stated

Copy furnished:  
DWR, ATTN: R. Franson & Robert Pottex

OCE  
SPD

cc  
Flood Control Unit  
Valley Res Ofc  
Engr Div (Levee & Chan)  
(Prog Dev Br)

F&A (Kalal)

SUMMARY OF PORTION OF SACRAMENTO  
RIVER BANK PROTECTION PROJECT UNIT # 28  
SACRAMENTO RIVER RIGHT BANK

SITE MILE	STONE PROTECTION	L.F.
17.3	80+00 to 92+50	1250
17.7	51+50 to 57+00	550
18.1	28+00 to 37+00	900
19.1	19+70 to 31+00	1130
26.4	285+50 to 292+50	700
	295+50 to 299+50	400
27.0	257+00 to 260+70	370
	262+00 to 269+50	750
27.7	222+80 to 229+50	670
32.3	0+00 to 3+63	363
33.1	8+00 to 16+00	800
40.4	39+00 to 45+00	600

SACRAMENTO RIVER LEFT BANK

*12.9	116+50 to 129+80	1330
13.1	96+50 to 103+50	700
14.9	32+00 to 36+00	400
15.3	8+50 to 15+50	700
18.6	1+00 to 5+30	430
23.1	0+00 to 5+00 AH	500
	111+07 to 112+07 BK	100
25.1	11+00 to 24+00	1300
26.4	5+00 to 7+70	270
26.7	126+50 to 134+00	750
27.2	102+50 to 107+00	450
32.1	11+53 to 19+61	808
	69+78 to 70+00	22
34.1	73+50 to 85+00	1150

STEAMBOAT SLOUGH LEFT BANK

*24.8 *Extended	0+00 to 5+80	580
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UNITS 102, 103, 104,  
110, 111, 112

C  
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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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November 15, 1974

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

Refer to: 4130.20.111

Dear Sir:

At its regular meeting of November 8, 1974, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 25 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of November 5, 1974.

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

Sites Miles 23.5, 23.8, 24.2, and 24.3 Left Bank, Steamboat Slough.

Sites Miles 22.0, 22.6, 23.5, 24.6, and 25.1 Right Bank, Steamboat Slough.

Sites Miles 22.1, 23.2, 23.4, and 27.9 Left Bank, Sutter Slough.

Site Mile 15.7 Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4786 (sic - should be 50-4-4768), Specification No. 4210, and Contract No. DACW 05-73-C-0046, insofar as could be determined visually.

Sincerely yours,

/s/ Roy L. McCuiston  
for A. E. McCOLLAM  
Chief Engineer and  
General Manager

*Flood Control*

SPKCO-0

5 November 1974

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

*done*

Gentlemen:

Reference is made to the joint inspection of 29 October 1974, made for the purpose of transferring a portion of completed work in Unit No. 25, (Sacramento River Bank Protection Project), to the State of California for operation and maintenance. This flood control work consists of levee sloping and placement of stone protection at 14 sites on Stearnboat Slough, Sutter Slough and the Sacramento River. The sites, as listed on the inclosure, were completed on 29 October 1974 in accordance with Specification No. 4210, Contract No. DACW05-73-G-0046, Drawing No. 50-4-4768.

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 5 November 1974 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Unit Nos. 104 and 110 Sacramento River Flood Control project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

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

Copy Furnished:  
DWR, ATTN: John Wright

cc: Engrg (Levees & Chan)  
(Prog Dev)  
Valley Res Ofc  
F&A Br (Jones)

OCE  
SPD

*Wait/kic/*  
WAIT/kic/  
ITEL

*Soleman*  
SOLEMAN

*Henson*  
HENSON

*McKinsey*  
MCKINSEY

*Potamos*  
POTAMOS

*Rockwell*  
ROCKWELL

*Units 104,  
110*

Summary of Portion of Sacramento  
River Bank Protection Project Unit #25

Steamboat Slough  
Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
24.3	503+40 to 501+24	216
24.2	496+00 to 493+60	240
23.8	480+45 to 477+50	295
23.5	459+12 to 456+00	312

1063 ok

Right Bank

24.6	26+50 to 32+25	575
22.6	2+30 to 5+35	305
22.0	42+00 to 38+25	375
23.5*		295
25.1*		125

1675 ok

Sutter Slough  
Left Bank

27.9	0+00 to 4+00	400
23.4	254+00 to 264+00	1000
23.2	270+80 to 277+00	620
22.1	331+50 to 334+00	250

2270 ok

Sacramento River  
Right Bank

15.7*	64+00 to 69+00	500
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Total 5508 ok

\* Emergency Work Added by Change Order

C  
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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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August 26, 1974

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

Refer to: 4130.20.110

Dear Sir:

At its regular meeting of August 23, 1974, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 23 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of July 31, 1974.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Mile 30.1 Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4687, Specification No. 4687, and Contract No. DACW 05-73-C-0012, insofar as could be determined visually.

Sincerely yours,

/s/ Allan I. Wendroff  
for A. E. McCOLLAM  
Chief Engineer and  
General Manager

CERTIFIED MAIL #520961  
RETURN RECEIPT REQUESTED

*Transfer*

SPKCO-0

31 July 1974

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

RECEIVED  
FLOOD CONTROL DISTRICT  
SACRAMENTO, CALIFORNIA  
JUL 31 1974

*due*

Gentlemen:

Reference is made to the joint inspection of 30 July 1974, made for the purpose of transferring a portion of the Sacramento River Bank Protection Work (Unit No. 23), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of about 2,155 feet of stone bank protection on the Sacramento River right bank at Site Mile 30.1. The site was completed on 30 July 1974 in accordance with Specification No. 4041, Contract No. DACW05-73-C-0012, Drawing No. 50-4-4687.

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 31 July 1974, to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

*R*  
ROMPALA/ph/Itel

*for*  
COLEMAN

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

*MB*  
HENSON

*AB*  
MCKINSEY  
*R*  
ROCKWELL

Copy furnished:  
DWA, ATTN: John Wright

OCE  
SPD

cc:  
- Enrg (Lev & Chan)  
- Enrg (Prog Dev)  
- Valley Res Ofc  
- F&A (Jones)

*Unit 104*

*2*

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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January 11, 1974

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

Refer to: 4130.60.110

Dear Sir:

Reference is made to your letter of December 20, 1973, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 23, to the State of California, for operation and maintenance.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Miles 15.7, 18.3, 21.3, 22.1, 23.1, 24.5, 25.6, 34.5 and 36.5, all on the Right Bank of the Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4687, Specification No. 4041, and Contract No. DACW05-73-C-0012, insofar as could be determined visually.

The Reclamation Board at its regular meeting of January 4, 1974, formally accepted for operation and maintenance, the completed flood control work on the above-referenced sites.

Sincerely yours,

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

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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January 7, 1974

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

Refer to: 4130.60.111

Dear Sir:

Reference is made to your letter of December 18, 1973, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 25, to the State of California, for operation and maintenance.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Miles 16.0, 17.8, 18.3, 19.6, 20.7, 21.1, 22.2 and 22.5 all on the left bank of Steamboat Slough and Site Miles 0.6, 1.7, 2.2 and 3.3 all on the left bank of Miner Slough.

The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4768, Specification No. 4210, and Contract No. DACW05-73-C-0046, insofar as could be determined visually.

The Reclamation Board at its regular meeting of January 4, 1974, formally accepted from the District Engineer for operation and maintenance, the completed flood control work on the above-referenced sites.

Sincerely yours,

/s/ Allen I. Wendroff  
A. E. McCOLLAM  
Chief Engineer and  
General Manager.

20 December 1973



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

*Handwritten mark*

Gentlemen:

Reference is made to the joint inspection of 19 December 1973, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 23), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of stone bank protection on the Sacramento River right bank at Site Miles 15.7, 18.3, 21.3, 22.1, 23.1, 24.5, 25.6, 34.5, and 36.5. The sites, as listed on the inclosure, were completed on 19 December 1973 in accordance with Specification No. 4041, Contract No. DACW05-73-C-0012, Drawing No. 50-4-4687.

*M*  
ROMPALA/dc  
Redactro

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 20 December 1973, to the State of California for operation and maintenance.

*M*  
COLEMAN

*A*  
HENSON

*M*  
MCKINSEY

*CP*  
POTAMOS

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 104 and 112, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

*y*

Sincerely,

*Units 104, 112*

CHRIST F. POTAMOS  
Lieutenant Colonel, CE  
Acting District Engineer

~~1 Incl~~  
As stated

~~Copy furnished:~~  
~~DNR, ATTN: John Wright & Carl King~~

~~OCE~~  
~~SPD~~

~~Valley Res Ofc~~  
~~F & A (Jones)~~

~~cc: Engrg (Lev & Chan)~~  
~~Engrg (Prog Dev)~~

SUMMARY OF PORTION OF SACRAMENTO RIVER  
BANK PROTECTION PROJECT UNIT #23

SACRAMENTO RIVER RIGHT BANK

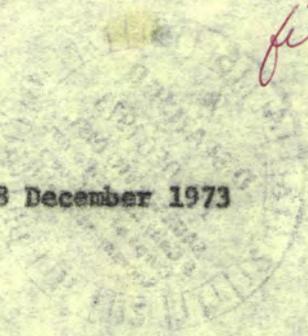
<u>STAKE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TON WALL</u>	<u>L.F.</u>
15.7	59+50 to 63+25	375	60+25 to 60+85	60
			61+50 to 62+90	140
18.3	22+00 to 29+00	700		
21.3	6+00 to 29+00	2300	20+50 to 21+50	100
			22+00 to 23+50	150
22.1	0+00 to 14+00	1400	0+90 to 2+90	200
			10+00 to 14+00	400
23.1	161+00 to 179+00	1800	163+38 to 164+82	144
			166+64 to 168+00	136
			169+00 to 172+00	300
			173+00 to 174+50	150
24.5	84+50 to 94+00	1150	93+00 to 94+75	175
25.6	20+00 to 37+00	1700	20+25 to 23+50	325
			25+00 to 25+60	60
			26+31 to 27+50	119
			27+70 to 28+50	80
34.5	72+00 to 83+00	1100	80+00 to 81+42	142
36.5	7+00 to 25+00	1800		

*WA 10-6112*

*Clark file*

SPKCO-0

18 December 1973



*done*

F & A (Jones)

Valley Res Ofc (2)

Engr (Levees & Channels)

Engr (Prog Dev)

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

Gentlemen:

Reference is made to the joint inspection of 13 December 1973 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 25), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and placement of stone protection work on Steamboat Slough left bank at Site Miles 16.0, 17.8, 18.3, 19.6, 20.7, 21.1, 22.2, and 22.5 and on Miner Slough left bank at Site Miles 0.6, 1.7, 2.2 and 3.3. The sites, as listed on the inclosure were completed on 13 December 1973, in accordance with Specification No. 4210, Contract No. DACW05-73-C-0046, Drawing No. 50-4-4768.

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 18 December 1973 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 104 and 105 Sacramento River Flood Control Project. Copies will be furnished your office at a later dated.

Sincerely,

*RM*  
ROMPALA/jch  
itel

CHRIST F. POTAMOS  
Lieutenant Colonel, CE  
Acting District Engineer

*M. L.*  
COLEMAN

*msf*  
HENSON

*[Signature]*  
MCKINSEY

*[Signature]*  
POTAMOS

- 2 Incl
- 1. As Stated
- 2. GO #5

Copy furnished:  
DWR, ATTN: John Wright & Carl King

*Units 104, 105*

*W*

SUMMARY OF PORTION OF SACRAMENTO RIVER

BANK PROTECTION UNIT NO. 25

Miner Slough Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L. F.</u>
0.6	252+00 to 255+27 - <i>changed to 256+37</i>	327 337
1.7	<i>change to 193+45</i> 194+00 to 199+35	535 590
2.2	164+00 to 169+00	500
3.3	102+00 to 107+50	550
		<u>1912</u> <u>1977</u>

Steamboat Slough Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L. F.</u>
16.0	59+20 to 63+75	455
17.8	152+50 to 155+23	273
18.3	180+29 to 183+75	346
19.6	246+00 to 257+25	1125
20.7	310+25 to 315+15	490
21.1	328+25 to 335+15	690
22.2	394+70 to 399+00	430
22.5	404+25 to 409+50	525
		<u>4334</u>

Total 6246

*Units 104, 105*

*Incl 1*

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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18 December 1972

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

Refer to: 4130.60.109

Dear Colonel Donovan:

Reference is made to your letter of November 24, 1972, concerning the transfer to the State of California, for maintenance and operation, a portion of the Sacramento River Bank Protection Project, Unit No. 21.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Miles 26.5, 28.0, 33.6, 34.7, 38.7, 43.1 Left Bank and Site Miles 16.0 and 40.9 Right Bank, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This work has been constructed in conformance with Drawing No. 50-4-4487, Specification No. 3680, Contract No. DACW05-72-C-0046, insofar as could be determined visually.

The Reclamation Board at its regular meeting of December 15, 1972, formally accepted from the District Engineer for operation and maintenance, the completed work on the above-referenced sites.

Sincerely yours,

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

EXHIBIT F

*R Mc Clark file*



SPKCO-0

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

Gentlemen:

This is in regard to the joint inspection of 21 November 1972 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 21), to the State of California for operation and maintenance.

The flood control work consisting of levee bank sloping and placement of stone bank protection on the Sacramento River left bank at site miles 26.5, 28.0, 33.6, 34.7, 38.7 and 43.1, and right bank at site miles 16.0 and 40.9 is listed on the inclosure. The work was completed on 21 November 1972, in accordance with Specification No. 3680, Contract No. DACW05-72-C-0046, and Drawing No. 50-4-4487.

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 November 1972, to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operations and Maintenance Manual, Supplements Nos. 104, 111 and 112. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES G. DONOVAN  
Colonel, CE  
District Engineer

1 Incl  
As stated

Copy furnished:  
DWR, ATTN: John Wright, Carl King  
HQDA (DAEN-OWO)  
SPD

F & A Br (Jones)  
Valley Res Ofc

(Lev & Chan)  
(Prog Dev)

cc: Engr

Rompala/dc  
itel

Coleman

Henson

Mckinsey

Lord

Donovan

*Units 104, 111, 112*

*hb*

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION  
UNIT 21 SACRAMENTO RIVER

LEFT BANK

SITE MILE	STONE PROTECTION	L.F.	STONE TOEWALL	L.F.
26.5	7+65 to 11+63	398		
28.0	61+00 to 65+30	430		
33.6	84+00 to 110+00	2600		
34.7	33+80 to 50+00	1620		
38.7	150+00 to 173+35	2335		
43.1	7+00 to 12+28	528		

7911

RIGHT BANK

16.0	45+40 to 49+30	390		
40.9	16+00 to 29+00	1300	16+00 to 20+70	470

1690 ok

Total 9601 ok

*Units 104, 111, 112*

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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Y

December 9, 1971

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

Refer to: 4130.60.108

Dear Sir:

Reference is made to your letters of November 18 and 23, 1971, concerning the transfer to the State of California for maintenance and operation a portion of the Sacramento River Bank Protection Project, Unit No. 19, consisting of Sites Mile 24.7, 30.4, 35.2, 42.0, 42.9 Left Bank and 28.3, 29.3, 42.5, 51.3 Right Bank of the Sacramento River.

This work was constructed in accordance with Specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4378.

The Reclamation Board, at its regular meeting of December 3, 1971, formally accepted this portion of Unit 19 for maintenance and operation.

Sincerely yours,

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

EXHIBIT F

1 8 NOV 1971

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

F&A(Cordano)

Valley

Prog Dev

cc: Engr-Lev & Chan

Gentlemen:

Reference is made to the joint inspection of 16 November 1971, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit # 19), to the State of California for operation and maintenance.

The flood control work consists of bank sloping, levee enlargement and placement of stone bank protection on the Sacramento River right bank at Site Miles 28.3, 29.3, 42.5 and 51.3 as listed on the inclosure. The work was completed on 16 November 1971 in accordance with Specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4378.

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 16 November 1971 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 104, 113, 114 and 116, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES C. DONOVAN  
Colonel, CE  
District Engineer

1 Incl (in dupe)  
as stated

Copy furnished:  
DIR, ATTN: John Wright  
OCE  
SPD

*RM*  
ROMPALA

*MJC*  
COLEMAN

*MD*  
HENSON

*[Signature]*  
DONOVAN

*Petrus*

*Units 104, 113, 114, 116*

*copies to John Talbot #*  
*22 NOV 71 JK*

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
UNIT 19, SACRAMENTO RIVER

RIGHT BANK

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOEWALL</u>	<u>L.F.</u>	<u>LEVEE ENLARGEMENT</u>	<u>L.F.</u>
28.3	195+48 to 213+55	1807	196+60 to 203+75 205+25 to 213+55	715 830		
29.3	132+50 to 151+65	1915	133+00 to 133+70	70	132+00 to 142+00 148+90 to 151+65	1000 275
42.5	18+00 to 26+20	820	18+40 to 19+00 20+67 to 23+00 25+85 to 26+20	60 233 35		
51.3	55+00 to 85+00	3000				

7542 ✓

Units 10A, 11, 13, 14, 16

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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Sep 16, 1970  
File No: 4130.60.107  
Your Contract 69-C-0076

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

Dear Sir:

Reverence is made to your letter of August 31, 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:

Sacramento River	
<u>Left Bank</u>	<u>Right Bank</u>
Mile 39.2	Mile 30.6
Mile 37.75	Mile 28.8
Mile 37.6	Mile 20.4
Mile 33.0	Mile 19.4
Mile 32.2	
Mile 28.4	
Mile 22.7	
Mile 22.2	
Mile 16.7	
Mile 15.4	

This work was constructed in conformance with specification No. 3349, Contract No. DACW05-69-C-0076, drawing No. 50-4-4283 and completes the work to be done on Unit No. 15.

The Reclamation Board at its meeting of September 14, 1970, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

SPKGO-0

31 August 1970

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

Gentlemen:

Reference is made to the joint inspection of 25 August 1970 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #15), to the State of California for operation and maintenance.

The Flood control work consisting of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles 15.4, 16.7, 22.1, 22.7, 28.4, 32.3, 33.0, 37.6, 37.75 & 39.2 and on the right bank at Site Mile 19.4, 20.4, 28.8, & 30.6 as listed on the inclosure. The work was completed on 25 August 1970, in accordance with Specification #3349, Contract DACW05-68-C-0076, Drawing No. 50-4-4283.

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 31 August 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, Supplements No. 103, 104 & 111, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES R. HIGHMAN  
Lieutenant Colonel, CE  
Acting District Engineer

1 Incl  
AS

Copy furnished:  
O.C.E.  
S.P.D.  
D.W.R.

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

*[Signature]*  
ROMPALA/

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON

*[Signature]*  
HARR

*[Signature]*  
HIGHMAN

*[Signature]*

*Unit 15 1031  
10-1-111*

*to Osborn & Thibert 2 Sep 70*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
PORTION OF UNIT 15 SACRAMENTO RIVER

M11-101  
1501 10-1-10  
M11-101

LEFT BANK:

<u>SITE MILE</u>	<u>LEVEE ENGARGEMENT STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>	<u>STONE TOE WALL STATION</u>	<u>L.F.</u>
15.4			61+23 to 66+00	477		
16.7	0+00 to 11+25	1125	0+00 to 12+00 0+00 to 2+14Ah	1415	0+00 to 1+75	175
22.1			60+58 to 68+00	742		
22.7			30+22 to 37+45	723		
28.4			34+62 to 42+55	793		
32.2	54+70 to 62+00	730	56+20 to 62+00	580	56+60 to 58+80	220
33.0			12+70 to 32+35	1965		
37.6	18+00 to 26+66	866	19+60 to 26+66	706	24+39 to 25+82	143
37.75			7+10 to 8+72	162		
39.2			134+150+00	1600	145+85 to 148+20	235

RIGHT BANK:

19.4	0+00 to 9+00	900	0+00 to 9+00	900	0+75 to 1+25	50
20.4			26+00 to 33+50	750		
28.8	153+00 to 171+65	1865	153+00 to 177+55	2455	161+50 to 165+60 169+60 to 170+50	410 90
30.6	56+00 to 78+40	2240	56+35 to 78+40	2205	58+50 to 58+90	40

9163.

6310

COPY

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

COPY

November 13, 1969

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

Dear Sir:

Reference is made to your letter of October 30, 1969 concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Work at seven critical locations on the right and left banks of the Sacramento River between Site Mile 12.4 and Site Mile 53.3 for operation and maintenance.

The work was constructed in accordance with Specification No. 3649, Contract No. DACW05-69-C-0064, Drawing No. 50-4-4476.

The Reclamation Board, at its meeting of November 7, 1969, formally accepted the above-referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

SPKCO-0

30 October 1969

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

Gentlemen:

Reference is made to the joint inspection of 20 October 1969, made for the purpose of transferring a portion of the Sacramento River Bank Protection Work at 7 critical locations on the right and left banks of the Sacramento River between Mile 12.4 and Mile 53.3, to the State of California for operation and maintenance.

The flood control work consisting of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles 12.4, 28.1 and 30.4 and right bank at Site Miles 19.9, 20.1, 45.9 and 53.3 is listed on the inclosure. The work was completed on 20 October 1969, in accordance with Specification No. 3649, Contract No. DACW05-69-C-0064, Drawing No. 50-4-4476.

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; & Section 5 of the Flood Control Act of 18 August 1941 as amended (Public Law 99, 84th Congress, 1st Session); and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto 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, Supplement Nos. 104, 111, 114 & 116, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

GEORGE B. FINK  
Colonel, CE  
District Engineer

**CERTIFIED MAIL**  
RETURN RECEIPT REQUESTED

1 Incl  
as stated

Copy furnished:

O.C.E.

S.P.D.

CC: Engr Div-Lev&Chan; Engr Div-Prog Dev; Valley; F&A(Cordano)

*JK*  
ROMPALA/pp

*JK*  
COLEMAN

*JK*  
HENSON

*JK*  
HART

*JK*  
FINK

*Units 104,  
111, 114  
116*

*To OSBUC and Huber 7 NOV 69*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT

RIGHT BANK

<u>LEVEE UNIT SITE MILE</u>	<u>LEVEE ENLARGEMENT STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>
19.9	53+60 to 56+35	= 275	53+60 to 56+35	= 275
20.1	39+32 to 49+00	= 968	39+85 to 48+00	= 815
45.9	89+50 to 94+00	= 450	89+50 to 93+50	= 400
53.3	9+00 to 15+00	= 600	9+00 to 15+00	= 600

LEFT BANK

12.4			1+00 to 8+70	= 770
28.1			52+00 to 61+30	= 930
30.4			157+50 to 166+00	= 850

*Units 104, 111, 114,  
116*

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THE RECLAMATION BOARD  
State of California

December 6, 1967

4130.60.105

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

Dear Sir:

Reference is made to your letter of November 30, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 10, Site Mile 19.3 left, (Hogback Island Recreational Area) in accordance with Specification No. 3156.

The Reclamation Board, at its meeting of December 1, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

30 November 1967

SFKKO-F

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

Gentlemen:

Reference is made to the joint inspection of 28 November 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection Work (Unit #10), to the State of California for operation and maintenance.

The flood control work consisted of 2,621 feet of levee enlargement, placement of 3,201 feet of stone bank protection and Hogback Island Recreation Area, which includes selective clearing, picnic sites, trails, two boat launching ramps, parking and beach areas, on the left bank of Steamboat Slough at Site Mile 19.3. The work was completed on 27 November 1967, in accordance with Specification No. 3156, Contract No. IA-04-167-CIVENG-66-149 and Drawing No. 50-4-4008.

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

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

This portion of the project work will be added by amendment to the Operation & Maintenance Manual, Supplement No. 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

**CERTIFIED MAIL**  
RETURN RECEIPT REQUESTED

✓ Copy furnished:  
Dept Water Resources

✓ O.C.E. & SPD

cc: Engr-Lev&Chan; Engr-ProgDev; Valley; F&A(Cordano)

*to also H. 5 DEC*

*ROMPALA/PP*

*COLEMAN*

*HEMSON*

*HART*

*YOUNG*

*30*

*Unit 104*

*Handwritten initials*

*Handwritten initials*

## THE RECLAMATION BOARD

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



OCT 25 1967

4130.60.106

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

Dear Sir:

Reference is made to your letter of October 3, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 11, Sites Mile 16.6 left bank Sacramento River and Sites Mile 18.5, 18.8, 23.7 and 24.1 right bank Sacramento River, in accordance with Specification No. 3157.

The Reclamation Board, at its meeting of October 20, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A handwritten signature in cursive script that reads "A. E. McCollam".

A. E. McCOLLAM  
General Manager

JHMacC:pa

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Units 102, 104

OCT 25 1967

#14  
C-2  
3 October 1967

SPKCO-F

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

Gentlemen:

Reference is made to the joint inspection of 31 August 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #11), to the State of California for operation and maintenance.

The flood control work consisting of levee enlargement, bank sloping and placement of stone bank protection on Sacramento River at Sites Mile 16.6, left bank; and Site Miles 18.5, 18.8, 23.7 & 24.1, right bank, is listed on the attached inclosure. The work was completed on 25 September 1967, in accordance with Specification No. 3157, Contract No. DACW05-67-C-0027, Drawing No. 50-4-4047.

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

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

This portion of the project work will be added by amendment to the operation and maintenance manual, Supplement Nos. 102 & 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

*JK*  
ROMPAIA/PP  
*CC*  
COLEMAN

*MS*  
HENSBY

*MS*  
HART

*JK*  
YOUNG

✓ 1 Incl  
Summary Sheet

✓ Copy furnished:  
Dept Water Resources

✓ O.C.E.  
S.P.D.

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

cc: Engr-Lev&Chan; Engr-ProgDev; Valley; F&A(Cordano)

*JK*  
3

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
UNIT #11

<u>LEVEE UNIT SITE MILE</u>	<u>LEVEE ENLARGEMENT STATION</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION STATION</u>	<u>LINEAL FEET</u>	<u>ROCK TOE WALL STATION</u>	<u>LINEAL FEET</u>
<u>LEFT BANK</u>						
16.6	2+15 to 6+60	445	2+15 to 6+60	445	6+15 to 6+60	45
<u>RIGHT BANK</u>						
18.5	15+50 to 22+00	650	15+50 to 22+00	650		
18.8	3+00 to 6+42	342	3+00 to 6+42	342		
23.7	128+00 to 136+45	845	128+00 to 136+45	845		
24.1	107+00 to 123+00	1,600	107+00 to 122+00	1,500		

102

104

67-0027

To Alice H. Odell  
3882 LEVEE  
STONE RETET.

2 October 1967

SPKKO-F

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

Gentlemen:

Reference is made to the joint inspection of 31 August 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #10), to the State of California for operation and maintenance.

The flood control work consisting of levee enlargement, bank sloping and placement of stone bank protection on Steamboat Slough at Site Miles 18.0, 20.0, 20.7, 20.9, & 21.3 left bank; and Site Miles 15.3, 19.3, 20.3, 21.4 & 21.8 right bank, is listed on the attached inclosure. The work was completed on 25 September 1967, in accordance with Specification No. 3156, Contract No. DA-04-167-CIVENG-66-149, Drawing No. 50-4-4008.

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

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

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 104 & 105, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

*RC*  
ROMPALA/pp

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON *TDS*

*[Signature]*

*[Signature]* YOUNG  
*[Signature]* 3

*Unit 78104  
105*

Incl  
Summary Sheet

Copy furnished:  
Dept Water Resources

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

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

cc: Engr-Lev&Chan; Engr-ProgDev; Valley; F&A (Cordano)

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
UNIT #10

<u>LEVEE UNIT SITE MILE</u>	<u>LEVEE ENLARGEMENT STATION</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION STATION</u>	<u>LINEAL FEET</u>	<u>ROCK TOE WALL STATION</u>	<u>LINEAL FEET</u>
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RIGHT BANK

105 {	15.3	7+00 to 15+00	800	7+00 to 15+00	800	
	19.3	198+50 to 207+06	856	198+50 to 207+06	856	
	20.3	251+00 to 254+52	352	251+00 to 254+52	352	
	21.4	55+75 to 71+50	1,575	71+50 to 55+75	1,575	56+50 to 58+25 67+20 to 68+50
	21.8	39+50 to 41+39	189	39+50 to 41+39	189	40+40 to 41+20
		3772'		3772'		

LEFT BANK

104 {	18.0	159+00 to 180+00	2,100	159+00 to 180+00	2,100	
	20.0	270+00 to 285+00	1,500	270+00 to 285+00	1,500	274+50 to 276+00
	20.7	308+00 to 310+48	248	308+00 to 310+48	248	
	20.9	315+00 to 328+00	1,300	315+00 to 328+00	1,300	
	21.3	337+00 to 346+00	900	337+00 to 346+00	900	
		6048'		6048'		

9820' STONE RETET.

9820' LEVEE ENLARGIE.

to Adm. Oct 1967.

Units 104, 105

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

Mar 16 1967

Refer to: 4130.60.105

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

Dear Sir:

Reference is made to your letter of March 6, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 10, Sites Mile 16.7, 17.3, 17.4, 17.6, 21.8, 22.2, 22.8, 23.4, 23.7, 24.0, 24.2, 24.4, left bank, Steamboat Slough, in accordance with Specification No. 3156.

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

Sincerely yours,

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

EXHIBIT F

13D

6 March 1967

SPKRO-F

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

Gentlemen:

Reference is made to the joint inspection of 28 February 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #10), upon completion, to the State of California for operation and maintenance.

The flood control work consisting of levee enlargement, bank sloping and placement of stone bank protection on Steamboat Slough left bank at Site Miles 16.7, 17.3, 17.4, 17.6, 21.8, 22.2, 22.8, 23.4, 23.7, 24.0, 24.2 and 24.4, is listed on the attached inclosure. The work was completed on 28 February 1967, in accordance with Specification No. 3156, Contract No. DA-04-167-CIVENG-66-149, Drawing No. 50-4-4008.

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

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

This portion of the project work will be added by amendment to the operation and maintenance manual, Supplement No. 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAMFORD YOUNG  
Colonel, CE  
District Engineer

1 Incl  
Summary Sheet

Copy furnished:  
Dept Water Resources

OCE & SPD

CC: Engr-Lev&Chan; Engr-ProgDev; Valley; F&A (Cordano)

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Unit 104*

ROMPALA/pnp

COLEMAN

HENSON

HAY

YOUNG

*[Handwritten signatures and initials: ROMPALA, COLEMAN, HENSON, HAY, YOUNG]*

*[Handwritten initials]*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT

<u>LEVER UNIT SITE MILE</u>	<u>LEVER ENLARGEMENT</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION</u>	<u>LINEAL FEET</u>	<u>ROCK TOE WALL</u>	<u>LINEAL FEET</u>
16.7	87+30 to 100+00	1270	87+30 to 100+00	1270		
17.3	129+60 to 131+64	204	129+60 to 131+64	204		
17.4	137+30 to 139+00	170	137+30 to 139+00	170		
17.6	142+10 to 148+00	590	142+10 to 148+00	590		
21.8	364+75 to 371+00	625	364+75 to 371+00	625	366+25 to 367+50 367+75 to 368+65	125 90
22.2	391+00 to 394+70	370	391+00 to 394+70	370		
22.8	426+00 to 427+92	192	426+00 to 427+92	192	427+25 to 427+80	55
23.4	453+00 to 456+00	300	453+00 to 456+00	300	455+00 to 456+00	100
23.7	467+00 to 474+00	700	467+00 to 474+00	700		
24.0	486+15 to 494+00	785	485+00 to 494+00	900	486+00 to 487+00	100
24.2	496+00 to 501+00	500	496+00 to 501+00	500		
24.4	503+00 to 512+37	937	503+00 to 512+37	937	506+00 to 508+00	200

UNIT 104

6768

THE RECLAMATION BOARD

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



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

DEC 23 1966

Refer to: 4130.60.103  
Contract No. 66-15

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

Dear Sir:

Reference is made to your letter of November 29, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 6, Sites Mile 31.3, 31.8, 40.6 and 41.2, right bank and Sites Mile 36.9, 37.4, 40.5 and 41.5 left bank, in accordance with Specification No. 3058.

The Reclamation Board, at its meeting of December 15, 1966, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

JHMacC:pa

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units*  
*104, 111, 112*  
*copy to Kelly*

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29 November 1966

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

Gentlemen:

Reference is made to the joint inspection of 9 November 1966, made for the purpose of transferring a portion of the Sacramento River Bank Protection work to the State of California for operation and maintenance.

The flood control work consists of levee enlargement, levee sloping and placement of bank protection on the Sacramento River at eight different sites. These sites are located at Site Miles 31.3, 31.8, 40.6 and 41.2 on the right bank, and Site Miles 36.9, 37.4, 40.5 and 41.5 on the left bank. The length of the work on the sites is listed on the attached inclosure. The job was completed on 9 November 1966, in accordance with Specification No. 3058, Contract No. DA-04-167-CIVENG-66-15, Drawing No. 50-4-3848. The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session, and Section 2304(a), Title 10.

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

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 103, 104, 111 and 112, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

/s/ T. S. Meade  
T.S. MEADE  
Lieutenant Colonel, CE  
Acting District Engineer

EXHIBIT F

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
BETWEEN SACRAMENTO & ISLETON

SACRAMENTO RIVER RIGHT BANK:

LEVEE UNIT SITE MILE	<u>STONE PROTECTION</u>	<u>LINEAL FEET</u>	<u>LEVEE ENLARGEMENT</u>	<u>LINEAL FEET</u>	<u>BANK SLOPING</u>	<u>LINEAL FEET</u>
31.3	(38+15to32+00 0+00to2+80	895	32+30to38+15) 0+00to3+30 )	915	32+00to32+30	30
31.8	3+50to17+70	1420	4+00to17+70	1370	3+50to4+00	50
40.6	28+00to39+00	1100	32+50to37+50	500	(28+00to32+50 37+50to39+00	450) 150)
41.2	3+00to16+50	1350	2+00to16+00	1400		

SACRAMENTO RIVER LEFT BANK:

36.9	10+00to20+35	1035	12+00to22+00	1000	10+00to12+00	200
37.4	26+00to39+60	1360	25+00to38+25	1325	38+25to39+60	135
5	55+45to66+00	1035			55+45to66+00	1055
41.5	2+00to13+50	1150	1+00to11+00	1000		

C  
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Y

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

JUN 23 1966

Refer to: 4130.60.103  
Contract 66-15

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

Dear Sir:

Reference is made to your letter of May 2, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 6 Sites Mile 28.7 and 28.2, left bank, and Sites Mile 20.8, 25.3, 26.08 and 29.65, right bank, in accordance with Specification No. 3058

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

SPIGO-F

2 May 1966

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

Gentlemen:

Reference is made to the joint inspection of 25 April 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, bank sloping and placement of bank protection at 6 locations on the right and left banks of Sacramento River between River Mile 20.8 and 29.65, as listed on the attached inclosure, was completed on 25 April 1966, in accordance with Specification No. 3058, Contract No. DA-04-167-CIVENG-66-15, and Drawing No. 50-4-3848.

The work was performed under the general authority of the Public Law No. 86-645, 86th Congress, 2nd Session.

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, Supplements Nos. 104 & 110, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT B. MATHE  
Colonel, CE  
District Engineer

MORGAN/PP

COLEMAN

HENSON

MATHE

1 Incl  
Summary Sheet

Copyfurnished:  
Dept Water Resources - Envelopes

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

CC: Lev&Chan; Prog Dev; Valley Res; F&A(Cordano)

*Units 104*

*[Handwritten signatures and initials]*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
RIGHT AND LEFT BANKS SACRAMENTO RIVER, SACRAMENTO TO ISLETON

LEVEE UNIT SITE MILE	LEVEE ENLARGEMENT	LINEAL FEET	LEVEE SURFACING	LINEAL FEET	BANK SLOPING	LINEAL FEET	STONE PROTECTION	LINEAL FEET	RIGHT OR LEFT BANK
20.8	1+00to16+50	1550	1+00to16+50	1550	-2+50to1+00	350	-2+50to14+50	1700	Right
25.3	43+00 to 52+00	900	41+00to52+00	1100	41+00to43+00	200	41+00to51+00	1000	Right
26.08	2+00to9+90	790	2+00to9+90	790			2+50to9+00	650	Right
28.2					42+00to52+00	1000	42+00to52+00	1000	Left
28.7	21+40to30+50	910	21+40to31+00	960	13+30to21+40	810	13+30to31+00	1770	Left
29.65	120+35to130+00	965	120+00to131+00	1100			120+63to128+00	737	Right

21  
 7900  
 1180  
 1790  
 1770  
 1100  
 7660

12100  
 12000  
 1100

27  
 2330  
 77

6857  
 ↑  
 For 1st - 2nd

1 October 1964

The Reclamation Board  
 State of California  
 1215 "O" Street  
 Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection made on 14 & 15 September 1964, of flood control work pertaining to the Sacramento River Bank Protection Project for the purpose of transferring this work, upon completion, to the State of California, for operation and maintenance.

The flood control work, designated as Contract No. 2, consisting of levee enlargement, shaping and placement of bank protection at 16 locations listed below was completed on 28 September 1964, in accordance with Specification No. 2957, Contract DA-04-167-CIVENG-64-51 and Drawing No. 50-4-3741. This work also includes the additional roadway paving replacement as listed below:

<u>LEVEE UNIT</u>	<u>LINEAL FEET</u>	<u>RIGHT OR LEFT BANK</u>	<u>ADDITIONAL PAVING REPLACEMENT</u>
Site Mile 12.85	650	Left	0 L.F.
Site Mile 14.70	630	Left	0 L.F.
Site Mile 19.45	1,105 Site A&B	Right	505 L.F.
Site Mile 24.95	2,856 Two Sites	Right	100 L.F.
Site Mile 29.05	698	Left	0 L.F.
Site Mile 31.30	650	Right	200 L.F.
Site Mile 37.05	950	Left	0 L.F.
Site Mile 42.65	950	Left	100 L.F.
Site Mile 43.50	1,300	Left	350 L.F.
Site Mile 44.50	700	Left	265 L.F.
Site Mile 46.85	737	Right	150 L.F.
Site Mile 26.70 Sutter Sl.	680	Left	70 L.F.
Three Mile Slough	960 Site A&B	Left	0 L.F.

The flood control work described above now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood

SPKKO-F  
The Reclamation Board

control work, together with the waterway banks contiguous thereto are transferred to the State of California for operation and maintenance.

These sites will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 102, 104, 110, 111 and 114, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT E. MATHE  
Colonel, CE  
District Engineer

EDMUND G. BROWN  
GOVERNOR

STANLEY W. KRONICK, SACRAMENTO  
PRESIDENT

GROVER SHANNON, YUBA CITY  
VICE PRESIDENT

J. J. MADIGAN, CHICO  
SECRETARY

# THE RECLAMATION BOARD

OF THE  
STATE OF CALIFORNIA

1215 O STREET  
SACRAMENTO 14, CALIFORNIA  
TELEPHONE: HI 5-4711

MAX S. VANN, SR., WILLIAMS  
WALLACE MCCORMACK, RIO VISTA  
GEORGE W. NICKEL, JR., LOS BANOS  
HAROLD J. O'BANION, DOS PALOS  
BOARD MEMBERS  
A. N. MURRAY  
GENERAL MANAGER AND CHIEF ENGINEER

August 9, 1960

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

Dear Sir:

Reference is made to your letter of July 20, 1960, concerning the transfer to the State of the levee construction and bank revetment on the Sacramento River Flood Control Project on the levee sections listed below:

<u>LEVEE SECTION NO.</u>	<u>SITE</u>	<u>LOCATION</u>
661	C	Sacramento River, Right Bank, 113 Mile 42.76 to 42.98
662	D	Sacramento River, Right Bank, 104 Mile 31.87 to 32.32
663	E	Three-Mile Slough on Sherman Island side of channel, beginning at State Highway 24 Bridge, thence along Horseshoe Bend 0.51 miles 101
664	G	Three-Mile Slough on Sherman Island side of channel, Mile 2.76 to 2.98.

The Reclamation Board at its meeting of August 3, 1960, formally accepted these levee sections for operation and maintenance.

Sincerely yours,

*A. N. Murray*  
A. N. MURRAY  
General Manager and Chief Engineer

HSB:ED

8/13/60  
Copy sent to -  
Northern Area Office  
Ed Jensen  
J. H. H.

20 JUL 1960

*Supplement #2*

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

Gentlemen:

Reference is made to the joint inspection made on 26 April 1960 of certain levee sections pertaining to the Sacramento River Flood Control Project for the purpose of transferring them to the jurisdiction of the State of California for operation and maintenance.

The required work, consisting of levee construction and bank re-  
 vement, is completed in accordance with Specification No. 2601, Contract  
 No. DA-04-167-CIVENG-60-30 and Drawing No. 50-4-3614. The levee  
 sections referred to above are listed as follows:

<u>LEVEE SECT NO.</u>	<u>TYPE</u>	<u>LOCATION</u>	
661	C	Sacramento River, Right Bank, Mile 42.76 to 42.98	113 42.98 42.76 0.22
662	D	Sacramento River, Right Bank, Mile 31.87 to 32.32	104 32.32 31.87 0.45
663	E	Three-Mile Slough on Sherman Island side of channel, beginning at State Hwy 24 Bridge thence along Horseshoe Bend 0.51 miles	101 0.51
664	G	Three-Mile Slough on Sherman Island side of channel, Mile 2.76 to 2.98	2.98 2.76 0.22

The levee sections described above now meet the requirements of the Sacramento River Flood Control project. Therefore said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

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

REGISTERED

RETURN RECEIPT REQUESTED

0.22  
 0.45  
 0.51  
 0.22  
 Total 1.50

20 JUL 1960

SPKCO-C  
The Reclamation Board

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 Operations and Maintenance Manual covering these units 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

✓ 1 Incl  
F.C. Reg.

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

cc: ✓ Engr Divn, Levees & Chann Sect w/o incl  
Northern Area Ofc w/o incl  
Operations Branch

OPERATIONS BRANCH

Concurrences	
Originator:	LHK
Date:	7/18/60
Dist. Engr.	[Signature]
Asst. D.E. (A)	
Asst. D.E. (O)	3 [Signature]
Exec. Asst.	
Cmptr.	
Budget Fin. & Acctg.	
Mgmt.	
Property Office	
Copy	[Signature]
Engr'g	[Signature]
R. E.	
Prsnl.	
Legal	
Supply	

Stamp: *Benj. [Signature]*  
*W. [Signature]*  
*R. [Signature]*

REGISTERED #1733

RETURN RECEIPT REQUESTED

Handwritten: *MM 75 101, 104, 113*

A. M. BARTON  
CHIEF ENGINEER AND GENERAL MANAGER  
EDMUND G. BROWN, ATTORNEY GENERAL  
LEGAL ADVISER  
G. F. MELLUM  
ASSISTANT ENGINEER AND APPRAISER  
DONALD D. LEMMON  
ASSISTANT SECRETARY

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA  
1500 O STREET  
SACRAMENTO 14, CALIFORNIA

February 7, 1955

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

Gentlemen:

Reference is made to your letters dated May 17, 1954, November 18, 1954, December 15, 1954, January 14, 1955, January 21, 1955, and January 31, 1955, concerning the transfer of levee sections and contiguous banks to the State of California for operation and maintenance, your File No. SPKKO-P 824.3 (Sacramento River F.C.P.).

The Reclamation Board at its meeting on February 2, 1955, deferred action on the above indicated transfers until such time as the report of its consulting engineers has been completed.

Yours very truly,

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

By Donald D. Lemmon  
DONALD D. LEMMON  
Assistant Secretary

NDL:Tab

May 17-1954	_____	237, 378, and 238 (Filed under unit No. 378)
Nov. 18-1954	_____	305 to 315
Dec. 17-1954	_____	379 to 387
Jan. 14-1955	_____	328 to 422, 104, 110, 112
Jan. 21-1955	_____	423 to 433, 128, 130, 131, 136
Jan. 31-1955	_____	434, 152

GOODWIN J. KNIGHT  
GOVERNOR

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

A. J. BALLAWAY, JR., SACRAMENTO  
PRESIDENT  
GROVER SHANNON, YUBA CITY  
VICE PRESIDENT  
GEO. H. HOLMES, CLARKSBURG  
SECRETARY  
W. P. HARKEY, GRIDLEY  
GEO. R. WILSON, WALNUT GROVE  
GEO. E. LODI, ARBUCKLE  
DOUGLAS B. COHEN, SANTA

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA  
1100 O STREET  
SACRAMENTO 14, CALIFORNIA

October 18, 1954

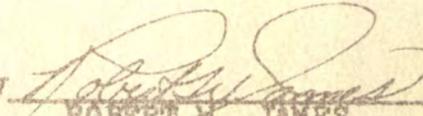
District Engineer  
Sacramento District  
Corps of Engineers, U. S. Army  
P. O. Box 1739  
Sacramento 8, California

Dear Sir:

Reference is made to your letter of September 21, 1954, SPKGE 824.3 (Sac. R.FCP), regarding the elimination of work between Stations 932+50 and 934+50 as shown on your plan entitled "Levee Strengthening and Bank Protection, Right Bank Sacramento River on Grand Island between Junction Point and Steamboat Slough". The Reclamation Board at its meeting of October 6, 1954, agreed to accept this reach of the river bank and levee for operation and maintenance in its present condition.

Yours very truly,

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

By   
ROBERT W. JAMES  
Assistant Administrative Adviser

*Levee Section No. 401  
Transferred 27 Dec. 1954.  
Site 22 Mile 28.25 to 28.32  
Drawing 50-4-2977  
Sheet No. 15*

104

*Contract No. 1141  
388-422  
Letter No 43*

Prepared  
9 Dec. 1953  
Dated 11 Dec. 1953

11 Dec 1953

SPKHO-V 821.3 (Sac. Riv. FCP)

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

Gentlemen:

Reference is made to District Engineer's letter dated 24 November 1953 transferring to the jurisdiction of the State of California five sections of completed levee pertaining to the Sacramento River Flood Control Project located along the left bank of the Sacramento River between mile 16.9 and 26.5.

= No. 46,

Supplementing the information furnished in the letter referred to above, the tabulation given below is presented to point out the various units of work located between mile 16.9 and 26.5 on this reach of the river which have been transferred to the State of California for operation and maintenance.

Units of Levee Located Between Mile 16.9 and 26.5,  
on the Left Bank of the Sacramento River

1. From Mile 16.9 to 16.95 Transferred on 24 November 1953.
2. From Mile 16.95 to 17.5 Transferred on 13 December 1951.
3. From Mile 17.5 to 17.6 Transferred on 24 November 1953.
4. From Mile 17.6 to 18.0 Transferred on 13 December 1951.
5. From Mile 18.0 to 18.15 Transferred on 24 November 1953.
6. From Mile 18.15 to 18.5 Transferred on 13 December 1951.
7. From Mile 18.5 to 21.5 Transferred on 13 December 1951.
8. From Mile 21.6 to 26.3 Transferred on 13 December 1951.
9. From Mile 26.3 to 26.4 Transferred on 24 November 1953.
10. From Mile 26.4 to Georgiana Slough, Mile 26.45, Transferred on 13 December 1951.
11. From Mile 26.45 to 26.5 Transferred on 24 November 1953.

It now has been determined that the section of left bank levee in this reach of the river, from mile 21.5 to 21.6 also meets the requirements

Section 374

Unit 104

Letter No. 47

Section 374

C. DEARRIETA X22

SPRO-P 221.3 (Sac. Div. FCP)  
The Reclamation Board

of the project. Therefore, said levee unit, from Mile 21.5 to 21.6, together with the waterway bank contiguous thereto is 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, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under Paragraph 208.10(10) of these regulations, a maintenance manual covering this section of levee is in process of preparation and will be furnished to you upon completion.

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

- 1 Incl
- 1. Flood Control Regulations

Copy furnished:  
State Engineer  
Dept. of Public Works

cc: OCS  
So. Pac. Div.  
Engr. Div.  
Sacto. Proj. Ofc.  
C. deArrieta (2)

*Unit 104  
Section 374*

REGISTERED MAIL  
Return Receipt  
Requested

24 NOV 1953

SHRO-F 221.3 (Sac. Riv. FCP)

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

Gentlemen:

Reference is made to District Engineer's letter dated 9 October 1953, wherein a date for a joint inspection was set for the purpose of transferring to the jurisdiction of the State of California, when completed, five levee sections pertaining to the Sacramento River Flood Control Project, located along the left bank of the Sacramento River between Mile 16.9 and 26.5. Reference is also made to joint inspection made of these units of work on 15 October 1953.

The levee sections referred to above, form an integral part of the Sacramento River Flood Control Project, and meet with the requirements of the project, were completed on 26 October 1953 in accordance with specification No. 1784 and Drawing No. 20-1-2977, under Contract No. 20-21-157-avg-1090. Therefore, said levee sections together with the waterway levee contiguous thereto are hereby transferred to the State of California for operation and maintenance. The location of these sections of levee is further described as follows:

<u>Location No.</u>	<u>Description</u>	<u>River Mile No.</u>	
1	Left Bank - Sacramento River	16.90 to 16.95	Section No. 369
2	" " " "	17.5 to 17.6	" " 370
3	" " " "	18.0 to 18.15	" " 371
4	" " " "	26.3 to 26.4	" " 372
5	( <del>section 200</del> )	26.45 to 26.5	" " 373

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

Letter No. 46  
Sections  
369 to 373

C. DEARFETTA (2)

SPHC-2 621.3 (Sac. Div. PUY)  
The Reclamation Board

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 28.10(10) of these regulations, a maintenance manual covering these sections of levee 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:

- 1 Incl
- 1. Flood Control Regulations

H. A. NELSON  
Act'g. Executive Asst.

Copy Furnished:  
State Engineer  
Department of Public Works

- cc: OCS
- So. Pac. Div.
- Engr. Div.
- Sacto. Proj. Ofc.
- C. deArrieta (2)

*Sections  
369 to 373*

C  
O  
P  
Y

THE RECLAMATION BOARD  
of the  
STATE OF CALIFORNIA

April 2, 1952

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

Dear Sir:

1. Reference is made to your letter of December 7, 1951, File SPKKO-P, transferring to The Reclamation Board levees and their contiguous waterward banks as follows:

- 87A**  
= 329 a. Site 2 of Part "A" - Right bank of the Sacramento River, Mile 28.5 on Grand Island, Station 6700 to 16700, Drawing No. 50-4-2760. 104
- 89A**  
= 331 b. Site 1 of Part "B" - Left bank of the Sacramento River, Mile 15.0 on Brannan Island, Station 22735 to 31700, Drawing No. 50-4-2761. 102

2. The foregoing items are completed contract units of bank revetment on levees constructed by local interests. The Reclamation Board on December 18, 1951, formally accepted these two sections of levee and their contiguous waterward banks for flood control operation and maintenance.

Yours very truly,

THE RECLAMATION BOARD

By \_\_\_\_\_  
A. M. BARTON

Chief Engineer and General Manager

AMB:FK

cc: Chief of Engineers

Washington, D. C.

Division Engr, South Pacific Div.

Corps of Engrs, U. S. Army

P. O. Box 3339, Rincon Annex, San Francisco 19

State Engineer

Sacramento, California

Units 104, 102

(14)

329 and 331

Units 87A and 89A

EARL WARREN  
GOVERNOR

A. R. GALLAWAY, JR., SACRAMENTO  
PRESIDENT

GROVER SHANNON, YUBA CITY  
VICE PRESIDENT

GEO. H. HOLMES, CLARKSBURG  
SECRETARY

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

# THE RECLAMATION BOARD

OF THE  
STATE OF CALIFORNIA

1100 O STREET  
SACRAMENTO 14, CALIFORNIA

April 2, 1952

A. M. BARTON  
CHIEF ENGINEER AND GENERAL MANAGER

EDMUND G. BROWN, ATTORNEY GENERAL  
LEGAL ADVISER

G. F. MELLIN  
ASSISTANT ENGINEER AND APPRAISER

S. A. HONAKER  
ASSISTANT SECRETARY

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

Dear Sir:

1. Reference is made to your letter of 8 December 1951, File SPKKA 824.3 (Sac.Riv.F.C.P.), transferring 34 individual reaches of the levees of Grand Island and their contiguous waterway banks to The Reclamation Board for operation and maintenance.

2. Grand Island, incorporated as Reclamation District No. 3, has, at the sole cost of the landowners in the district, constructed and maintained its levee system. The only exception is the cross levee at the southwesterly tip of the island between Steamboat Slough and the Sacramento River. This levee was constructed by the Corps of Engineers for the retention of dredger spoil pumped onto the lower end of the island from channel excavation and maintenance dredging. The waterway bank contiguous to this portion of the island serves no purpose of the flood control project and is entirely a navigation feature.

3. The remaining 33 separate reaches of levee and contiguous waterway banks are not accepted at this time. The levees are now, and will continue to be, maintained by Reclamation District No. 3. These 33 separate reaches of contiguous bank do not constitute units practicable of separate maintenance. Navigation with tidal action is a material factor in bank deterioration in this section of the Sacramento River and Steamboat Slough. The Reclamation Board will continue to accept contractual construction units completed by the Corps of Engineers and will accept for flood control operation and maintenance all of the levee system of Grand Island, together with the contiguous waterway banks when the Federal construction obligation is completed.

Yours very truly,

THE RECLAMATION BOARD

By

A. M. BARTON

Chief Engineer and General Manager

AMB:FK

cc: Chief of Engineers, Washington, D. C.  
Division Engineer - South Pacific Division  
Corps of Engineers, U. S. Army  
P. O. Box 3339, Rincon Annex - San Francisco  
State Engineer, Sacramento

Reach No. 9  
91 to 124

824.3(SAC.F.FOP)SPK

4/2/52

met/cda  
12/19/51

REGISTERED MAIL  
Return Receipt  
Requested

SPKKO-P 824.3 (Sac.Riv. F.C.P.)

19 DEC 1951

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

Gentlemen:

Reference is made to letter from this office dated 17 November 1951, wherein it was proposed to transfer to the jurisdiction of the State of California several units of the Sacramento River Flood Control Project in accordance with the procedure set forth in the 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 30 November 1951. One of these units, which is listed below, was completed on 14 December 1951, in accordance with specification No. 1515a, Contract No. DA-04-167-eng-640:

**328** Part "A" - Site 1 - Right bank of the Sacramento River, Mile 30.25 to 30.5 on Grand Island, Station 1 + 00 to 13 + 30, Drawing No. 50-4-2759

The completed unit of work referred to above now meets the requirements of the Sacramento River Flood Control Project. Therefore, said unit, together with the river bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under Paragraph 208.10(10) of these regulations, a maintenance manual covering this levee unit 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:

Copy Furnished:  
✓ Office, Chief of Engrs.  
✓ So. Pac. Div. Engr.  
✓ State Engineer

cc: Eng. Div. Sincerely yours,  
Sacto Fld Ofc.  
C deArrieta

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

104  
Bupe  
Levee Section 328  
Letter No 29

Co	
D	
Engr's	4
Ch	3
Sup	2
Legal	
Supply	
File	
Pers.	
Legal	
Supply	

12-18-51  
amk

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

19

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

Accepted Items

December 18, 1951

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

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

Copy to USED.

①

Accepted Items

No. Date of Letter

Levee Location

Remarks

6 6 Dec. 1951

Levees of Wadsworth Canal\*  
South levees of E. and W.  
Intercepting Canals.

Maintained by State. Water-  
ward slopes on 4 to 1 not  
required.

(12) (13) (14) (15)

7 7 Dec. 1951

Site 2 Part A. W. Levee  
Sacramento River-Mile  
28.5 -Grand Island.

Maintained by R.D. No. 3.  
Completed contract.

= 329

(87-A)

= 331

(89-A)

Site 1, Part B. E. levee  
Sacramento River-Mile 15.0  
Brannan Island.

Maintained by R.D.No. 2067  
Completed contract.

8 8 Dec. 1951

W. levee Sacramento River  
Mile 163.8 to Mile 143.5  
except 320 ft. at Colusa  
Warehouse & Mile 146.1  
to Mile 146.4.

Maintained as Maintenance  
Area No. 1.

(51) (52) (53) (54) (55) (56) (57)

8 Do

E. levee Sacramento River,  
Mile 153.3 to Mile 152.7;  
Mile 149.9 to Mile 149.7;  
Mile 149.4 to Mile 149.0;  
at Colusa Weir; Mile 143.3  
to Mile 140.2; Mile 139.3  
to Mile 138.2.

Maintained by State  
Separate completed contracts.

(58) (59) (60) (61) (62) (63)

8 Do

E. levee Sacramento River  
Mile 138.2 to Mile 137.9;  
Mile 136.9 to Mile 133.8;  
Mile 133.2 to Mile 132.3;  
Mile 131.8 to Mile 125.9;  
Mile 125.8 to Mile 123.1;  
Mile 122.6 to Mile 122.0.

Maintained by R.D.No. 70,  
Completed contracts.

(64) (65) (66) (67) (68) (69) (70)

8 Do

West levee, Sutter By-pass\*

Maintained by R.D.Nos. 70,  
1660, 1500. Condition upon  
completion of remaining  
part to standard section.

(71) (72) (73)

8 Do

North levee Tisdale  
By-pass†

Maintained by R.D.No. 1660.  
Waterward slope of 4 to 1  
not required.

(74)

8 Do

South levee Tisdale  
By-pass†

Maintained by R.D.No. 1500.  
Waterward slope of 4 to 1  
not required.

(75)

8 Do

East levee Sutter  
By-pass\*.

Maintained by State.

(76)

9 Do

W. levee Sacramento River  
Mile 35.15 to 35.86.

Maintained by R.D.No. 150  
(Merritt Island). Completed  
contract bank protection.

(81)

Accepted Items

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

Accepted  
Items

5

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

(21)

4

Accepted  
Items

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

12 8 Dec. 1951

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

a. Junction Miner and Sutter Sloughs westerly 5000 feet.

b. From State Highway Bridge West. 3035 ft.

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

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

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

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

Covered by letter dated 16 Nov. 1951

321 → (32) (79A) ✓

303 Covered by letter dated

(53A) ✓

304 17 Nov. 1951

(54A) ✓

(23)

(50)

\*No waterway banks contiguous to these levees.

12/8/51

REGISTERED MAIL  
Return Receipt  
Requested

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

8 DEC 1951

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

824.3(SAC.R.FCP)SEK

Gentlemen:

Reference is made to your letter of 6 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 the levees of Grand Island at the following locations:

91 a. Cross levee at the southwesterly tip of the island between Steamboat Slough and Sacramento River. 1134

b. Easterly levee of Steamboat Slough. 104 (M)

- 92 (1) Cross levee to Mile 15.7.
- 93 (2) Mile 15.9 to Mile 16.5.
- 94 (3) Mile 17.7 to Mile 17.9.
- 95 (4) Mile 18.2 to Mile 19.0.
- 96 (5) Mile 20.15 to Mile 20.85.
- 97 (6) Mile 21.25 to Mile 21.8.
- 98 (7) Mile 22.25 to Mile 22.55.

Letter No. 10

Items 91 to 124

21

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

- 99 (8) Mile 23.15 to Mile 23.45.
- 100 (9) Mile 24.0 to Mile 24.55.
- 101 (10) Mile 24.75 to Mile 25.25.
- 102 (11) Mile 25.3 to Mile 25.75.
- 103 (12) Mile 26.0 to Sacramento River.

c. Westerly levee of Sacramento River. *104 (11)*

- 104 (1) Cross levee to Mile 15.4.
- 105 (2) Mile 15.8 to Mile 17.9.
- 106 (3) Mile 17.95 to Mile 18.6 (Isleton Bridge).
- 107 (4) Mile 18.9 to Mile 19.2.
- 108 (5) Mile 19.3 to Mile 19.65.
- 109 (6) Mile 20.65 to Mile 21.65.
- 110 (7) Mile 21.95 to Mile 22.25.
- 111 (8) Mile 22.95 to Mile 24.25.
- 112 (9) Mile 24.4 to Mile 24.7.
- 113 (10) Mile 24.8 to Mile 25.4.
- 114 (11) Mile 25.55 to Mile 25.8.
- 115 (12) Mile 26.0 to Mile 26.15.
- 116 (13) Mile 26.25 to Mile 27.8.
- 117 (14) Mile 27.9 to Mile 28.25.
- 118 (15) Mile 28.6 to Mile 29.05.
- 119 (16) Mile 29.1 to Mile 29.45.
- 120 (17) Mile 29.55 to Mile 29.75.
- 121 (18) Mile 29.9 to Mile 30.25.

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

- 122 (19) Mile 30.5 to Mile 30.85.
- 123 (20) Mile 31.3 to Mile 31.6.
- 124 (21) Mile 31.65 to Steamboat Slough. Mile 31.9

The levee reaches cited above, although complete, have not been formally transferred as contemplated by the Project documents. Accordingly the said reaches of levee, together with the waterway bank 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 Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented. As provided under paragraph 208.10(10) of these regulations, a maintenance manual covering these works is in process of preparation and will be furnished your Board upon completion.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

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

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

Concurrence	
Original Date	11-28-51
Exec. O	3/8
Chf. Engr.	
Ad. Asst.	
Chf. Tech. Asst.	
Manag. Office Svcs.	
Oper.	1/2
Engr'g	2/2
R. E.	
Fisc.	
Pers.	
Legal	
Supply	

Letter No 10

Items 91 to 124

Designs by  
Reynolds

C. de ARRIETA

Prepared  
12-7-51

Mailed  
7 Dec. 1951

Accepted by the Red. Board  
18 Dec. 1951 as per letter  
dated 2 April 1952.

SPKKO-P

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

Gentlemen:

Reference is made to letter from this office dated 17 November 1951, wherein it was proposed to transfer to the jurisdiction of the State of California several units of the Sacramento River Flood Control Project in accordance with the procedure set forth in the 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 30 November 1951. Two of these units, which are listed below, were completed on 3 December 1951, in accordance with Specification No. 1515a, Contract DA-04-167-eng-640:

87-A

a. Site 2 of Part "A" - Right bank of the Sacramento River, Mile 28.5, on Grand Island, Station 6700 to 16700, Drawing No. 50-4-2760. <sup>104</sup>

89-A

b. Site 1 of Part "B" - Left bank of the Sacramento River Mile 15.0, on Brannan Island, Station 22735 to 31700, Drawing No. 50-4-2761. <sup>102</sup>

The completed units of work referred to above now meet the requirements of the Sacramento River Flood Control Project. Therefore, said units, together with the river bank 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 Flood Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved

(329) and (331)  
87-A and 89-A  
30 27

SPKKO-P  
The Reclamation Board

22 June 1936, as amended and supplemented. As provided under Paragraph 208.10(10) of these regulations, a maintenance manual covering these levee units 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.  
South Pacific Division  
State Engineer

cc: Engr. Div.  
Sacto. Field Ofc.  
C. de Arrieta



*file*

SPEKO-P 824.3(Sacto.Riv. F.C.P.)

17 NOV 1951

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

Gentlemen:

Reference is made to the letter from this office dated 12 February 1951, outlining the procedure adopted for transferring to the State of California completed units of the Sacramento River Flood Control Project.

In accordance with the above, you are hereby advised that four units of the Sacramento River Flood Control Project now under construction under Specification No. 1515a, Contract No. DA-04-167-eng-640, have been scheduled for completion on or about 27 December 1951. The location of these units of work are listed as follows:

PART "A"

86-A Site 1 - Right bank of the Sacramento River, Mile 30.5 on Grand Island, Station 1+00 to 13+30, Drawing No. 50-4-2759.

104

87-A Site 2 - Right bank of the Sacramento River, Mile 28.5 on Grand Island, Station 6+00 to 12+58 and from 13+60 to 16+00, Drawing No. 50-4-2760.

104

88-A Site 3 - Left bank of Sutter Slough, on Sutter Island at the junction of Sutter Slough with Miner Slough, Station 4+60 to 17+90, Drawing No. 50-4-2716.

110PART "B"

89-A Site 1 - Left bank of the Sacramento River, Mile 18.0 on Braman Island, Station 22+35 to 31+00, Drawing No. 50-4-2761.

102

86-A, 87-A, 88-A, and 89-A

SPEKO-P 834,5(Sacto.Riv. P.C.P.)  
The Reclamation Board.

It is suggested that a joint inspection of these units be made on 4 December 1951 for the purpose of determining if the work in progress meets with the requirements of local interests.

Please advise this office if the suggested date for this inspection meets with your approval.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

cc: Sacto. Field Office  
C. de Arrieta

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

PSKRO-P 824.3 (Sac. R. F.C. Proj.)

SEP 15 1950

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

Gentlemen:

Reference is made to letter from this office dated 23 June 1950 and letter from your office dated 26 June 1950 wherein a procedure for transfer of completed units of the Sacramento River Flood Control Project was proposed and accepted respectively.

In accordance with your letter of 8 September 1950, the Bank Protection and Levee Setback, West Levee Sacramento River, Grand Island, Mile 16.0 to 16.3, completed 19 July 1950 under Contract DA-GA-167-eng-224 by H. A. Jenkins, Contractor, is hereby transferred to the State of California as of 6 September 1950.

There is inclosed a copy of the Flood Control Regulations prescribed by the Secretary of the Army pursuant to the provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of flood control works, of which the construction referred to is a part. In accordance with paragraph 208.10(10) of these regulations this office will furnish you and local interests at a later date, with an operation and maintenance manual to assist in carrying out the obligations established. Copies of the contract drawings have previously been furnished to you.

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

FOR THE DISTRICT ENGINEER:

1 Incl.  
 Flood Control  
 Regulations

cc: C.R.R. w/o incl. (2)  
 Engr. Div. w/o incl.  
 OCE w/o incl.  
 Div. Engr. w/o incl.  
 State Engr. w/incl.

Sincerely yours,

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

UNIT #40-A

104

C O P Y

C O P Y

SFKKO-P 824.3 (Sac.River F.C.P.)

14 January 1955

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

Gentlemen:

Reference is made to the District Engineer's letters dated 3 and 5 November 1954 suggesting a joint inspection of certain levee sections pertaining to the Sacramento River Flood Control Project, for the purpose of transferring them to the jurisdiction of the State of California for operation and maintenance. Reference is also made to the joint inspection of these levee sections made on 22 November 1954.

The levee sections referred to above have been recently completed and are listed as follows:

a. Westerly Levee - Sacramento River, on Grand Island, Contract No. DA-04-167-eng-1141, Drawing No. 50-4-2977.

<u>Levee Section No.</u>	<u>River Mile Points</u>
388	15.4 to 15.8
389	17.9 to 17.95
390	18.6 to 18.9
391	19.2 to 19.3
392	19.65 to 20.65
393	21.65 to 21.95
394	22.25 to 22.95
395	24.25 to 24.4
396	24.7 to 24.8
397	25.4 to 25.55
398	25.8 to 26.0
399	26.15 to 26.25
400	27.8 to 27.9
401	28.25 to 28.40
402	29.05 to 29.10
403	29.45 to 29.55
404	29.75 to 29.90
405	30.85 to 21.30
406	31.60 to 31.65

- b.
- c.
- d.
- e.
- f.

It is to be noted that the levee sections described above combined with other sections previously transferred to your jurisdiction now form a long continuous levee reach along the right bank of the Sacramento River from the lower end of Grand Island to a point approximately 4 miles upstream from the upper end of Elkhorn Slough, Mile 15.2 to 46.0, as shown on inclosed chart entitled, "Sacramento River Flood Control Project - Levee Sections Transferred to the State of California. Sheet 1."

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 these units of work is in progress of preparation and will be furnished to you upon completion.

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

Sincerely yours,

- 2 Incl
- 1. Chart
  - 2. F.C. Reg.

/s/ Wm. J. Ely  
WM. J. ELY  
Col, CE  
District Engineer

Note: Only items pertaining to Unit No. 104 were included in this copy.

C O P Y

C O P Y

SPKKO-P 824.3 (Sac. Riv. F.C.P.)

3 December 1956

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

Gentlemen:

Reference is made to District Engineer's letter dated 22 August 1956, suggesting a joint inspection of certain levee sections pertaining to the Sacramento River Flood Control for the purpose of transferring them to the jurisdiction of the State of California for operation and maintenance. Reference is also made to the joint inspection of these levee sections made on 30 August 1956.

The required work on the levee sections referred to above was completed on 29 September 1956 in accordance with Specification No. 1965, Contract No. DA-04-167-CIVENG-56-32 and Drawing No. 50-4-3043. The levee sections referred to above are listed as follows:

<u>Levee Section No.</u>	<u>Site No.</u>	<u>Waterway</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
527	1	Steamboat Slough	15.75 to 15.90	Left
528	2	Steamboat Slough	16.7 to 16.8	Left
529	3	Steamboat Slough	16.9 to 17.28	Left
530	4	Steamboat Slough	17.44 to 17.53	Left
531	5	Steamboat Slough	17.62 to 17.7	Left
532	6	Steamboat Slough	19.1 to 19.18	Left
533	7	Steamboat Slough	19.68 to 19.83	Left
534	8	Steamboat Slough	21.15 to 21.19	Left

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<u>Levee Section No.</u>	<u>Site No.</u>	<u>Waterway</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
535	9	Steamboat Slough	21.87 to 22.25	Left
536	10	Steamboat Slough	22.55 to 23.15	Left
537	11	Steamboat Slough	23.5 to 23.72	Left
538	12	Steamboat Slough	23.86 to 23.97	Left
539	13	Steamboat Slough	24.55 to 24.75	Left

The levee sections, Nos. 527 to 539 inclusive, described above, now meet the requirements of the Sacramento River Flood Control Project; therefore said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California.

In addition to the above, recent surveys indicate that the levee sections listed below also meet the requirements of the Sacramento River Flood Control Project:

<u>Levee Section No.</u>	<u>Waterway</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
540	Steamboat Slough	16.5 to 16.7	Left
541	Steamboat Slough	16.8 to 16.9	Left
542	Steamboat Slough	17.28 to 17.44	Left
543	Steamboat Slough	17.53 to 17.62	Left
544	Steamboat Slough	17.9 to 18.2	Left
545	Steamboat Slough	19.0 to 19.1	Left
546	Steamboat Slough	19.18 to 19.68	Left
547	Steamboat Slough	19.83 to 20.15	Left
548	Steamboat Slough	20.85 to 21.15	Left

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<u>Levee Section No.</u>	<u>Waterway</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
549	Steamboat Slough	21.19 to 21.25	Left
550	Steamboat Slough	21.8 to 21.87	Left
551	Steamboat Slough	23.45 to 23.5	Left
552	Steamboat Slough	23.72 to 23.86	Left
553	Steamboat Slough	23.97 to 24.0	Left

Therefore, said levee sections Nos. 540 to 553 inclusive, together with the waterway banks contiguous thereto, are also hereby transferred to the State of California for operation and maintenance.

It is to be noted that the levee sections described above combined with other sections previously transferred to your jurisdiction now form a continuous levee reach along the left bank of Steamboat Slough in Reclamation District No. 3 from Cache Slough to the Sacramento River with the exception of one unit extending from Mile 25.25 to Mile 25.3.

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

C  
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Y

C  
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Y

River Flood Control Project. As provided under paragraph 208.10 (10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work 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.

1 Incl  
F.C. Reg.

/s/ A.E. McCollam  
A.E. MC COLLAM  
Colonel, CE  
District Engineer

**EXHIBIT G**

**SUGGESTED SEMI-ANNUAL REPORT FORM**

**EXHIBIT G**

CORPS OF ENGINEERS, U. S. ARMY  
OFFICE OF THE DISTRICT ENGINEER  
SACRAMENTO DISTRICT  
Wright Bldg., 1209-8th St.  
Sacramento, California

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. 104 - levees around Grand Island, R.D. No. 3.

a. The physical conditions 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 17.0 on the gage near head of Snodgrass Slough and 10.0 on the gage at Walnut Grove) occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevation</u>
_____	_____
_____	_____
_____	_____

Comments on the behavior of the protective works during such high water periods are as follows:  
(Superintendent's log of flood observations)

During the high water stages when the water level reached a height of \_\_\_\_\_, on the gage or excess thereof (dates) \_\_\_\_\_, it was necessary to organize and carry out flood operations as follows:  
(See Maintenance Manual \_\_\_\_\_.)

c. (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 current report period is as follows:

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

Respectfully submitted,

Superintendent of Works

SACRAMENTO RIVER BANK PROTECTION PROJECT, CALIFORNIA  
UNIT NO. 10

**Rules and Regulations for Operation and Maintenance of Recreation Area,  
Hogback Island, Steamboat Slough**

January 1968

1. The Hogback Island Recreation Area shall be available for use by all persons on equal terms. No person shall be denied entrance to the area because of race, color, or national origin.
2. The area shall be administered and maintained in a manner consistent with good public park practices.
3. Inspections of the premises shall be conducted at least annually by members of the Corps of Engineers and the Reclamation Board, on a mutually agreed schedule, to determine the adequacy of the operation and maintenance program.

SACRAMENTO DISTRICT  
U.S. ARMY CORPS OF ENGINEERS

*Transmitted to State Reclamation Board  
by letter SPK-VG dtd 5 Jan 68*

*EXHIBIT "H"*

*Small*

EXHIBIT I  
USFWS BIOLOGICAL OPINION  
DATED 19 JUN 2012



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
San Francisco Bay-Delta Fish and Wildlife Office  
650 Capitol Mall, Suite 8-300  
Sacramento, California 95814



In reply refer to:  
08FBDT00-2012-I-0021

JUN 19 2012

Alicia E. Kirchner  
Chief, Planning Division  
Corps of Engineers, Sacramento District  
1325 J Street  
Sacramento, California 95814-2922

**Subject:** Reinitiation of Section 7 Consultations for completed levee repairs under Public Law 84-99 within Reclamation Districts 3, 150, 551, 755, 765, 2098, 1001 and 17, Sacramento, San Joaquin, Yolo, and Solano Counties, California

Dear Ms. Kirchner:

This letter is in response to your May 24, 2012, letter requesting reinitiation of consultations with the U.S. Fish and Wildlife Service (Service) for an updated vegetation planting plan and its maintenance related to completed levee repairs under Public Law (PL) 84-99 within Reclamation Districts (RD) 3, 150, 551, 755, 765, 2098, 1001, and 17 in Sacramento, Yolo, San Joaquin, and Solano counties, California. The Corps of Engineers (Corps) is seeking concurrence with their determination that the proposed work and future operation and maintenance may affect but is not likely to adversely affect the Federally-listed delta smelt (*Hypomesus transpacificus*) or its critical habitat. Your request was received by the Service on May 25, 2012. Subsequently, on June 5, 2012, we received an electronic mail (email) message from Corps staff requesting that we exclude RD 1001 from the request, as the sites in this district would not be planted as part of this project. This response is in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) (Act).

## Background

Between December 28, 2005, and January 9, 2006, the State of California experienced a series of severe storms, which damaged levees within the Corps' Sacramento District boundaries. Water rose a second time in April 2006, and remained high in the system until June 2006. Many rivers and streams within the Sacramento and San Joaquin River Basins ran above flood stage during these events, and there were significant erosion and seepage problems with the levees. The California Department of Water Resources (DWR) and/or their maintaining agencies conducted flood fight activities while the Corps worked with DWR to restore the levee systems to the pre-

storm level of protection. These efforts were conducted under the authority of PL 84-99, Rehabilitation of Damaged Flood Control Works.

Between June 2008 and August 2009 the Service completed six individual section 7 consultations with the Corps on the effects of these repairs to delta smelt in RD 3 (Service file # 81420-2008-I-1030), RD 150 (Service file # 81420-2009-I-0707), RD 551/755 (Service file # 81420-2008-I-1031), RD 765 (Service file # 81420-2008-I-1404), RD 2098 (Service file # 81420-2008-I-1778) and RD 17 (Service file # 81420-2008-F-1032). Based upon implementation of the conservation measures proposed by the Corps for delta smelt, the Service concurred with the Corps' determination that the repairs in these RDs may affect, but would not likely adversely affect delta smelt.

### **Project Description**

The rock revetment portion of the construction for the above projects was completed in 2009; however, the willow pole cuttings proposed in the project descriptions have not been installed. Your request to reinitiate consultation is intended to provide an updated project description that clarifies how the vegetation component of the project will be installed at the repaired sites and integrates the future Operation and Maintenance (O&M) of the sites into the consultations.

The total length of the planting sites is about 30,500 linear feet, of which about 14,000 linear feet required a vegetation variance. The remainder of the planting sites are outside the vegetation free zone and do not require a variance. The Corps' Sacramento District obtained a variance from Engineering Technical Letter 1110-2-571 titled *Corps Guidelines for Landscape Planting and Vegetation Management at Floodwalls, Levees, and Embankment Dams* from Corps Headquarters on October 3, 2011.

The sites will be planted from the levee crown or from a barge using the stinger method. Based on the timing of the proposed plantings, the contractor will be directed to work from upstream to downstream to reduce the potential for encountering delta smelt. All plantings will be done above the existing waterline at the time of planting. Work will begin in late November or early December and be completed as soon as possible. When the barge is in use, it will continually move parallel to the levee as the plantings are installed.

Following installation of the willow pole cuttings, the Corps will supplement the O&M manuals and provide them to the non-Federal sponsor for implementation. This language is contained in Enclosure 1 and only applies to the sites that were repaired during the 2005/2006 flood event where willow pole cuttings are planted. No other changes to the O&M manuals will occur at this time.

The O&M requirements will be carried out by the Central Valley Flood Protection Board (Board), and may be further transferred to the local maintaining agencies by the Board. As long as the maintaining agency follows the supplemental O&M language at these sites, any future mitigation requirements resulting from damage to the site will be replaced in-kind at the site.

However, if the maintaining agency does not comply with the supplemental language and damages the plantings willingly, the maintaining agency will be responsible for the appropriate mitigation.

#### **Additional Proposed Conservation Measures**

- The plantings will be placed from the levee crown or barge using the stinger method.
- The work will occur from upstream to downstream to minimize the potential to encounter delta smelt.
- All planting will occur above the existing waterline at the time of installation.
- Work would begin in late November/early December to maximize planting success and would be completed as soon as possible to minimize effects on delta smelt.
- When a barge is used it will continually move parallel to the levee as the plantings are installed.

The Service has reviewed your amended project description and the existing biological opinions for the levee repairs within RD 3 (Service file # 81420-2008-I-1030), RD 150 (Service file # 81420-2009-I-0707), RD 551/755 (Service file # 81420-2008-I-1031), RD 765 (Service file # 81420-2008-I-1404), RD 2098 (Service file # 81420-2008-I-1778) and RD 17 (Service file # 81420-2008-F-1032), completed under PL 84-99 which included installing willow pole cuttings in their project description. The change in project description from what was analyzed previously is (1) more detail on the method of installation of the willow pole cuttings, (2) a revision in when plantings would be installed (during their dormant period) to give the plantings a better chance of success in establishing, and (3) details on the willow plantings future O&M. All other information from the original biological opinions remains unchanged.

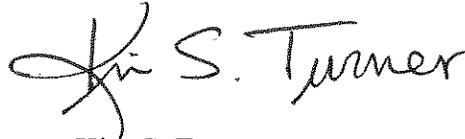
Based upon our review of the revised project description the Service finds the new information does not change our previous effects determination of may affect, but not likely to adversely affect delta smelt for the remaining work (willow pole cutting installation and future maintenance) proposed in RD 3, RD 150, RD 551/755, RD765, RD 2098, and RD 17. Unless new information reveals effects of the proposed work that may affect listed species in a manner or to an extent not considered in these consultations, or a new species is listed or critical habitat is designated that may be affected by the project, no further action pursuant to the Act is necessary for these projects.

Alicia E. Kirchner

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If you have any questions regarding our response, please contact Doug Weinrich at the Sacramento Fish and Wildlife Office at (916) 414-6600, or Kim S. Turner at the San Francisco Bay-Delta Fish and Wildlife Office at (916) 930-5603.

Sincerely,

A handwritten signature in black ink that reads "Kim S. Turner". The signature is written in a cursive style with a large, stylized initial "K".

Kim S. Turner  
Assistant Field Supervisor

Enclosure

cc:

Doug Weinrich, SFWO, Sacramento, CA

Liz Holland, COE, Sacramento, CA

Howard Brown, NOAA Fisheries, Sacramento, CA