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*3.89 Miles long.*

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UNIT NO. 13 OF THE  
SACRAMENTO RIVER  
FLOOD CONTROL PROJECT  
SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL

WEST LEVEE FEATHER RIVER  
OPPOSITE RIO BONITO STATION UPSTREAM 3.5 MILES



SACRAMENTO DISTRICT  
CORPS OF ENGINEERS  
DEPARTMENT OF THE ARMY  
SACRAMENTO, CALIFORNIA

FILE COPY

Unit No. 13 of the  
Sacramento River Flood Control Project  
West Levee of the Feather River, Opposite Rio Bonito station  
upstream 3.5 miles

Supplement to  
Standard  
Operation and Maintenance Manual

Sacramento District  
Corps of Engineers  
Department of the Army  
Sacramento, California

Unit No. 13 of the  
Sacramento River Flood Control Project  
West Levee of the Feather River, Opposite Rio Bonito station  
upstream 3.5 miles

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Exhibits

"B"	As Constructed Drawings No. 4-4-282, in 3 sheets, dated June 1946
"E"	Check List No. 2, in 1 sheet
"F"	Resolution adopted by The Reclamation Board 7 April 1948

UNIT NO. 13 OF THE  
SACRAMENTO RIVER FLOOD CONTROL PROJECT  
SUBJECT TO FLOOD CONTROL REGULATIONS

1. Levees

(a) Description. Unit No. 13 of the flood control works described below forms an integral part of the Sacramento River Flood Control Project. It consists of a portion of the West Levee of the Feather River from opposite Rio Bonito station upstream 3.5 miles as shown on the attached Drawings 4-4282, 3 sheets, and dated June 1946.

Under the program provided by the Sacramento River Flood Control Project a portion of this levee has been enlarged, a set back portion has been built as indicated on Exhibit "B" Plate 3 and a gravel road surfacing has been applied. Construction also included turnouts, necessary drainage structures, road approaches and appurtenances. All the structures are listed in Exhibit "E".

(b) Location. The levee is located along the westerly bank of the Feather River from opposite Rio Bonito station upstream 3.5 miles, and is approximately 65 miles northerly of Sacramento, California. The project extends from Sta. 117/00 to Sta. 0/00 and from Sta. 107/00 to Sta. 184/00, a total distance of 19,400 feet.

(c) Protection Afforded. This levee provides direct protection against high water of the Feather River and its tributaries in this area. The grade of the adopted flood plane along the main channel of the Feather River varies from Elevation 131.0 at the lower end to Elevation 149.0 at the upper end. (All elevations are referred to U.S.C.E. Datum). The levee grade provides a freeboard of three feet above the flood plane. It is estimated that a flood flow of 170,000 second feet in the main channel of the Feather River in this area will produce the adopted flood plane. Such a flow is not expected to occur more than once in 14 years.

(d) Contractor. The construction work on the levee described above was done by Excavators, Inc., Contractors, under Contract No. W-04-167-eng-1240, a copy of which is on file in the U. S. Corps of Engineers' office, Sacramento District, Sacramento, California.

(e) Beginning and Completion of Construction. Construction was started on 4 April 1947, and completed on 19 December 1947.

(f) Outstanding Construction Features. In general, all construction features are based on Standard plans and specifications, and the details are fully covered in the attached drawings listed below. (See Exhibit "B").

File No.

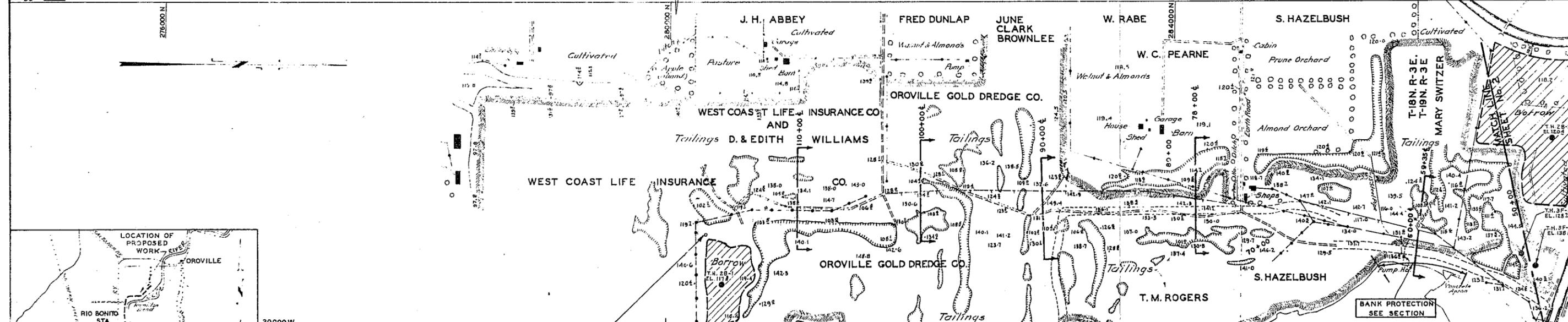
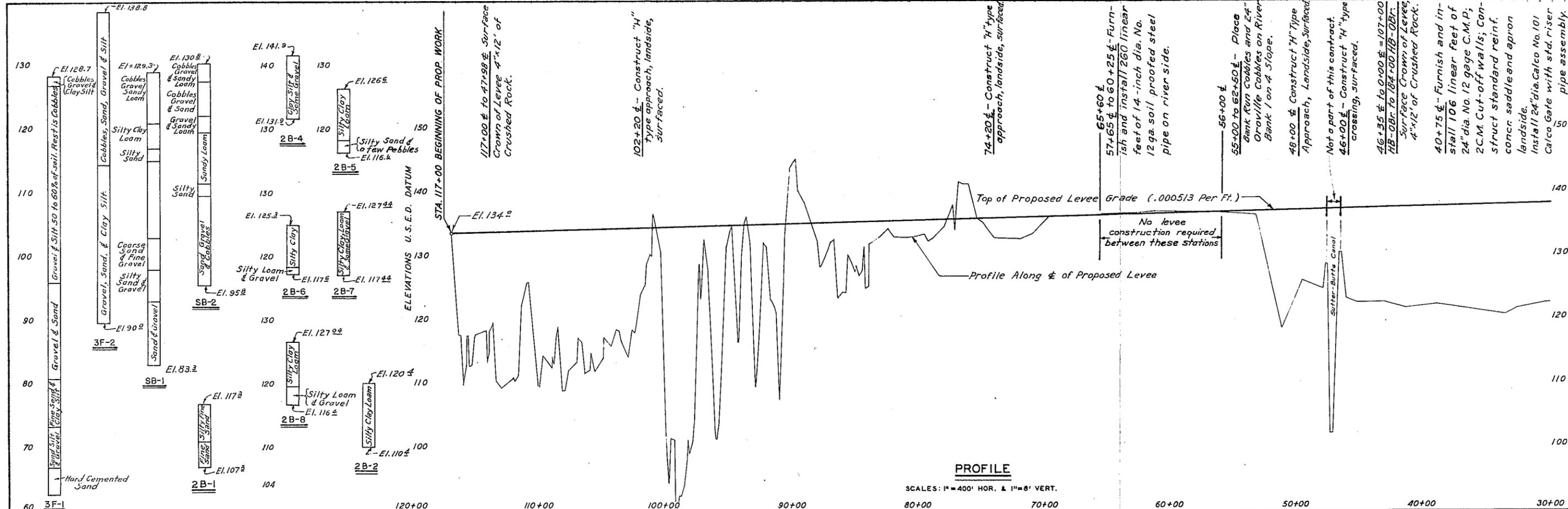
Title

4-4-282

Levee construction, West Levee Feather River, from opposite Rio Bonito station upstream 3.5 miles.

2. Maintenance and Operation. The levee and drainage structures referred to above should be maintained and operated in accordance with the provisions covered under the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project, copies of which may be obtained from office of the District Engineer, Corps of Engineers, Sacramento, California.

The responsibility for the maintenance and operation of this unit of levee was accepted by the Reclamation Board of the State of California on 7 April 1948, as shown on the attached resolution, Exhibit "F".



**LEGEND**

- ROADS
- EXISTING PIPES
- TOE EXISTING LEVEE
- POWER LINE
- TELEPHONE LINE
- AREA AVAILABLE FOR BORROW
- EXISTING IRRIGATION DITCHES
- PROPOSED LEVEE
- LOCATION OF TESTHOLE

**PLAN**  
SCALE: 1 IN. = 400 FT.

No.	REVISION	DATE	BY
2	As Constructed	12 Aug 48	A.R.
1	Borrow Area, Test Boring, Surfacing & Bank Protection	1/9/47	B.M.

**NOTE:**  
ALL ELEVATIONS ARE REFERRED TO U.S.E.D. DATUM  
MEAN LOWER LOW WATER, SUISUN BAY 3.6 FT.  
BELOW MEAN SEA LEVEL

**SACRAMENTO RIVER, CALIFORNIA  
FLOOD CONTROL PROJECT  
LEVEE CONSTRUCTION  
WEST LEVEE FEATHER RIVER  
FROM OPPOSITE RIO BONITO STATION  
UPSTREAM 3.5 MILES**

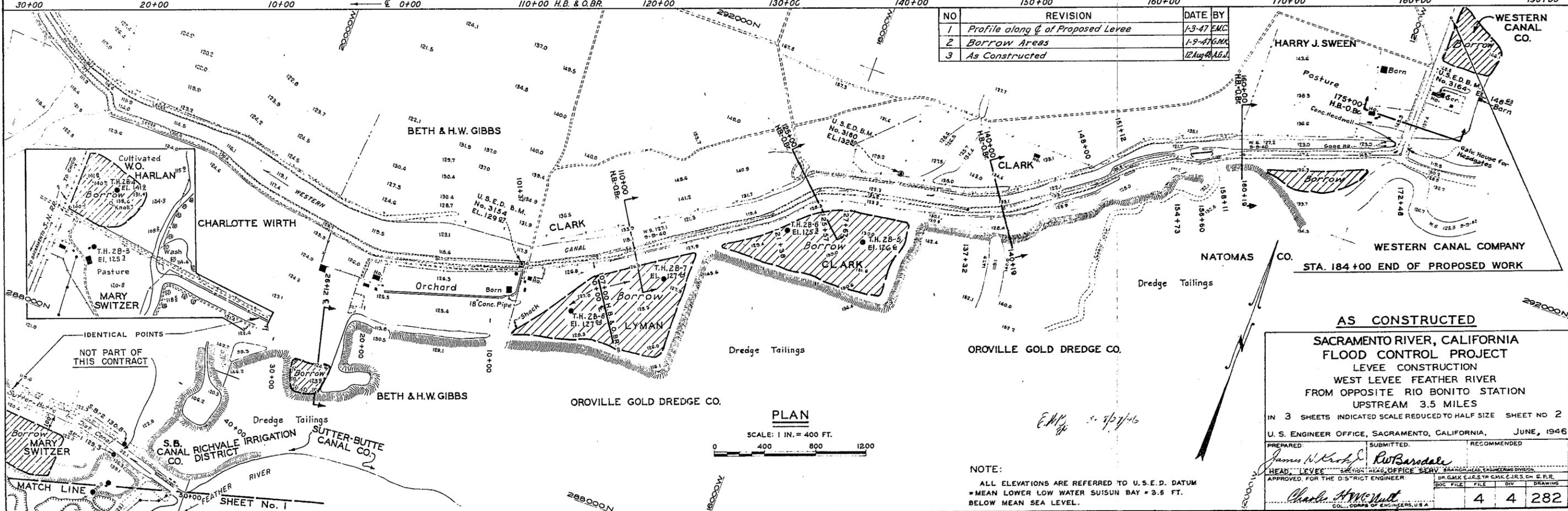
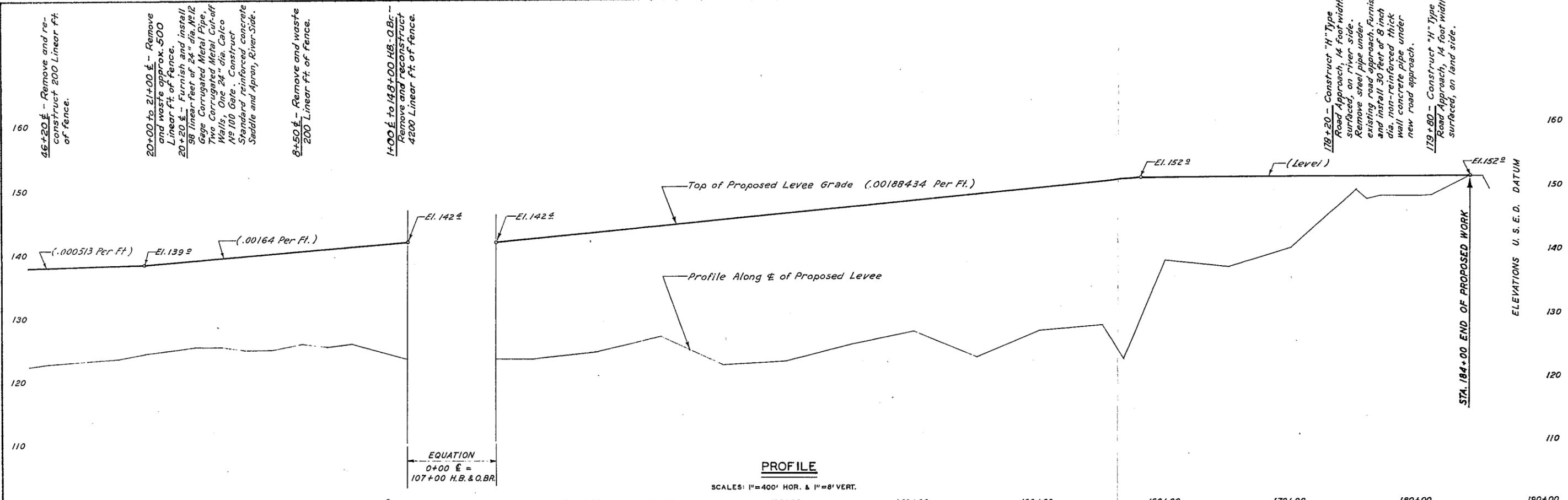
IN 3 SHEETS INDICATED SCALE REDUCED TO HALF SIZE SHEET NO. 1

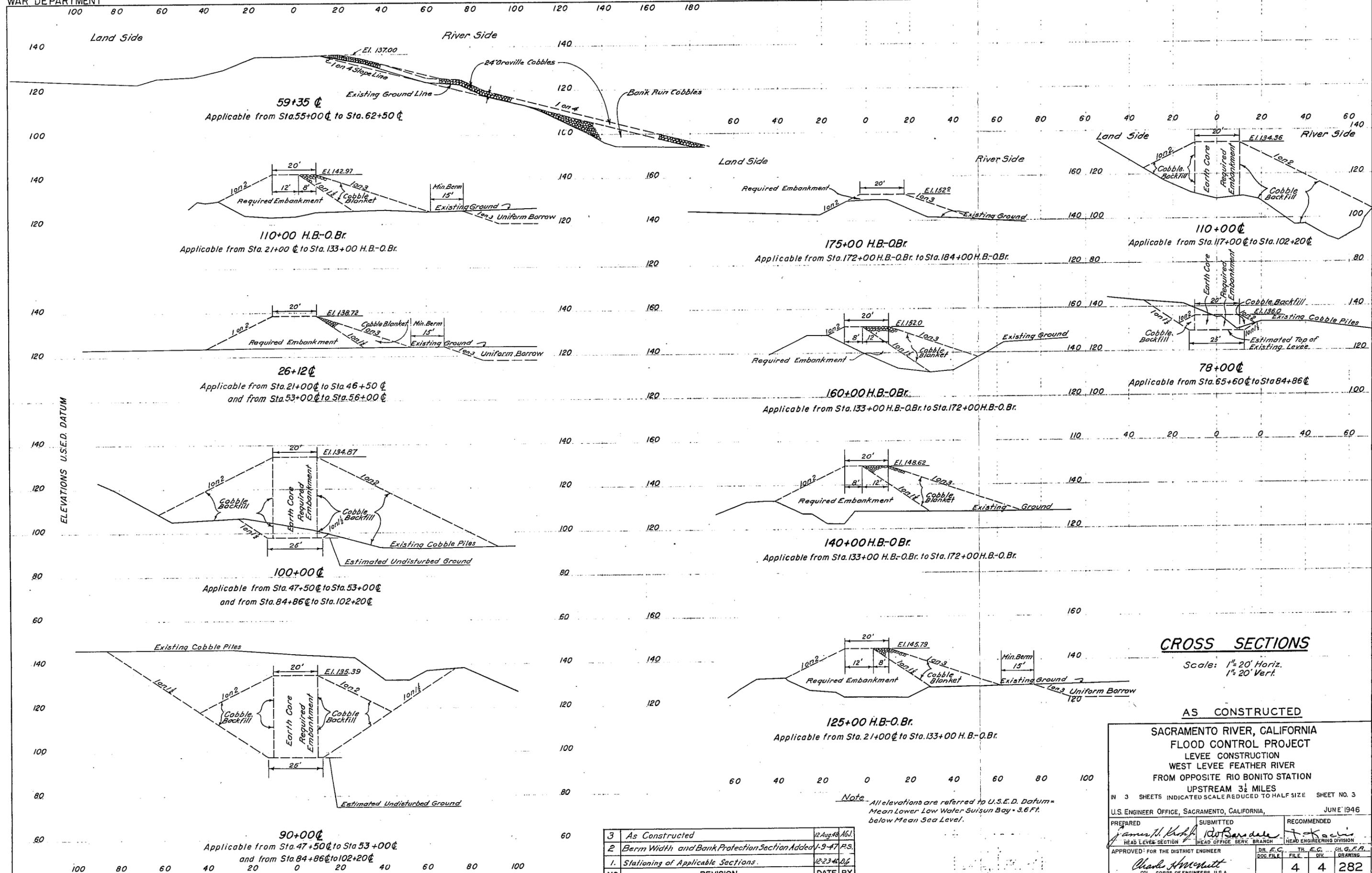
U. S. ENGINEER OFFICE, SACRAMENTO, CALIFORNIA, JUNE, 1946

PREPARED BY <i>James P. Hoff</i>	SUBMITTED BY <i>Robert Dale</i>	RECOMMENDED BY
HEAD OF LEVEE SECTION	HEAD OF OFFICE SERV.	HEAD OF ENGINEERING DIVISION

APPROVED FOR THE DISTRICT ENGINEER:  
*Charles H. McNeill*  
COL., CORPS OF ENGINEERS, U.S.A.

NO. 4	DIV. 4	DRAWING 282
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**CROSS SECTIONS**

Scale: 1" = 20' Horiz.  
1" = 20' Vert.

**AS CONSTRUCTED**

SACRAMENTO RIVER, CALIFORNIA  
FLOOD CONTROL PROJECT  
LEVEE CONSTRUCTION  
WEST LEVEE FEATHER RIVER  
FROM OPPOSITE RIO BONITO STATION  
UPSTREAM 3 1/2 MILES

IN 3 SHEETS INDICATED SCALE REDUCED TO HALF SIZE SHEET NO. 3  
U.S. ENGINEER OFFICE, SACRAMENTO, CALIFORNIA, JUN 1946

PREPARED <i>J. H. ...</i> HEAD LEVEE SECTION	SUBMITTED <i>W. B. ...</i> HEAD OFFICE SEAV. BRANCH	RECOMMENDED <i>J. K. ...</i> HEAD ENGINEERING DIVISION
APPROVED FOR THE DISTRICT ENGINEER <i>Charles ...</i> COL., CORPS OF ENGINEERS, U.S.A.		
DIST. FILE	FILE	DIV. FILE
	4	4 282

NO.	REVISION	DATE	BY
3	As Constructed	12 Aug 46	ABJ
2	Berm Width and Bank Protection Section Added	1-9-47	P.S.
1	Stationing of Applicable Sections.	12-23-46	P.P.

CHECK LIST NO. 2

Drainage structures located along the westerly bank of the Feather River, opposite Rio Bonito station and upstream 3.5 miles, approximately 65 miles northerly of Sacramento, California, as shown on Drawing No. 4-4-282 in 3 sheets.

HIGHWATER PERIOD. This term is used under Paragraph 4-02(c) 3b of the Standard; it applies to flood rising above the reading of 102.0 on the Division of Water Resources station gage located on the left bank of Feather River on downstream side of abutment of bridge on Gridley-Oroville Road two and one-half miles east of Gridley. Continuous water stage recorder and staff gage set on U.S.C.E. Datum. Zero of this gage is set to Elevation 0.0 U.S.C.E. Datum.

Location (station)	:Corr.:	Gates:	Frame	:Steel:	Other Structure Description	:Elevation of :Invert at pipe
:Pipe: No.	:	:	:	:	:	:
C/L Sta. 20/20	24"	100	-	-	Constructed 2 corrugated metal cut-off walls and re-inforced concrete saddle and apron.	124.0
C/L Sta. 40/75	24"	101	138.7	-	Constructed 2 corrugated metal cut-off walls and re-inforced concrete saddle and apron.	122.7
C/L Sta. 57/65 to 60/25	-	-	-	14"	14" Pipe parallels levee on R.S. and empties into sump at Hazelbush's Pump. 10" Pipe goes through levee at Hazelbush Pump. Approx. Sta. 60/25.	128.45 R.S. and 127.46 L.S.

C  
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P  
Y

R E S O L U T I O N

PASSED AND ADOPTED BY THE RECLAMATION BOARD

APRIL 7, 1948

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WHEREAS The Reclamation Board has heretofore approved a certain item of "new construction"; consisting of the enlargement, set back and reconstruction of the west levee of the Feather River from opposite Rio Bonito Station upstream 3.5 miles, and

WHEREAS the Department of the Army, Corps of Engineers, District Engineer, Sacramento District, under date of March 18, 1948, has notified The Reclamation Board of the completion of said item of levee enlargement, set back and reconstruction, and has transferred said portion of levee to the State of California for maintenance and operation; and

WHEREAS the Chief Engineer of The Reclamation Board has caused to be made an inspection on the ground of the item of new construction as specified above, and has found and determined that such work, as completed, has been prosecuted and carried out in conformance with plans and specifications therefor; now therefore be it

RESOLVED AND ORDERED that The Reclamation Board does hereby accept for the State of California the said item of "new construction" as aforesaid, which has on the date above set forth been transferred to said Board by the Department of the Army, U. S. District Engineer; and be it further

