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UNIT NO. 10 OF THE
SACRAMENTO RIVER
FLOOD CONTROL PROJECT
SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

EAST LEVEE SACRAMENTO RIVER
BETWEEN MERIDIAN BRIDGE AND TISDALE WEIR



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

FILE COPY

Unit No. 10 of the
Sacramento River Flood Control Project
East Levee of the Sacramento River between Meridian Bridge
and Tisdale Weir, California

Supplement to
Standard
Operations and Maintenance Manual

Sacramento District
Corps of Engineers
U. S. Army
Sacramento, California

Unit No. 10 of the
Sacramento River Flood Control Project
East Levee of the Sacramento River between Meridian Bridge
and Tisdale Weir, California

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<u>Exhibits</u>		
"B"	As constructed Drawings No. 50-4-2287, in 7 sheets, Drawing No. 50-4-2337 and Drawing No. 50-4-2339	
"E"	Check List No. 2, in 6 sheets	
"F"	Resolution adopted by the Reclamation Board 2 July 1947	

UNIT NO. 10 OF THE
SACRAMENTO RIVER FLOOD CONTROL PROJECT
SUBJECT TO FLOOD CONTROL REGULATIONS

1. Levees

(a) Description. Unit No. 10 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 East Levee of the Sacramento River and begins immediately downstream of the Meridian Bridge in Meridian, California. This unit extends downstream approximately 13.4 miles as shown on the attached drawings of Exhibit "B".

Under the program provided by the Sacramento River Flood Control Project, portions of this levee have been enlarged on the landside and portions have received riverside enlargement as shown in Exhibit "B". Parts of the existing levee were of required grade and section and did not require new construction under the contract by which this unit was completed. Several types of surfacing were applied to the crown of levee: a road mix 2 inches in depth and 12 feet in width; crushed rock 3 inches in depth and 12 feet in width; or, crushed rock 4 inches in depth and 20 feet in width, as indicated on plate 7 of Exhibit "B". Required turnouts and road approaches were constructed. These items are included in the attached drawings in Exhibit "B". Structures affecting levee maintenance works are listed in Exhibit "E".

(b) Location. The levee covered by this manual is located along the easterly bank of the Sacramento River. It begins immediately downstream of the Meridian Bridge at Meridian, California, Station 498+60 on the Colusa to Winship traverse. The project extends downstream a distance of 70,664.8 feet to Station 105+00 on the Winship to Kirks traverse. The levee was originally constructed by local interests. Subsequently it became necessary to restore portions of the original levee to required grade and section. This was accomplished under Contract No. W-04-167-eng-1208. The first part of construction under this contract extends downstream from Station 498+60 to Station 693+50 on the Colusa to Winship traverse. A second part of work accomplished under this contract extends from Station 708+00 to Station 958+00 on the Colusa to Winship traverse. Station 1100+24.8 on the Colusa to Winship traverse has a station equation of 0+00 on the Winship to Kirks traverse. The last part of construction accomplished under this contract begins at Station 83+00 on the Winship to Kirks traverse and extends downstream to Station 105+00.

(c) Protection Afforded. The levee affords direct protection against high water of the Sacramento River and its tributaries in this area. The grade of the adopted flood profile along the main channel of the Sacramento River varies from Elevation 65.8 at Meridian Bridge, the upper end, to Elevation 55.2 at Tisdale Weir, the lower end. The levee grade provides a freeboard of 3 feet above the flood profile. It is estimated that a flood flow of 48,000 c.f.s. in the main channel of the Sacramento River will produce the adopted flood profile.

(d) Contractor. The construction work on the levee described above was done by H. Earl Parker, Contractor, under Contract No. W-04-167-eng-1208, a copy of which is on file in the U. S. Corps of Engineers' Office, Sacramento District, Sacramento, California.

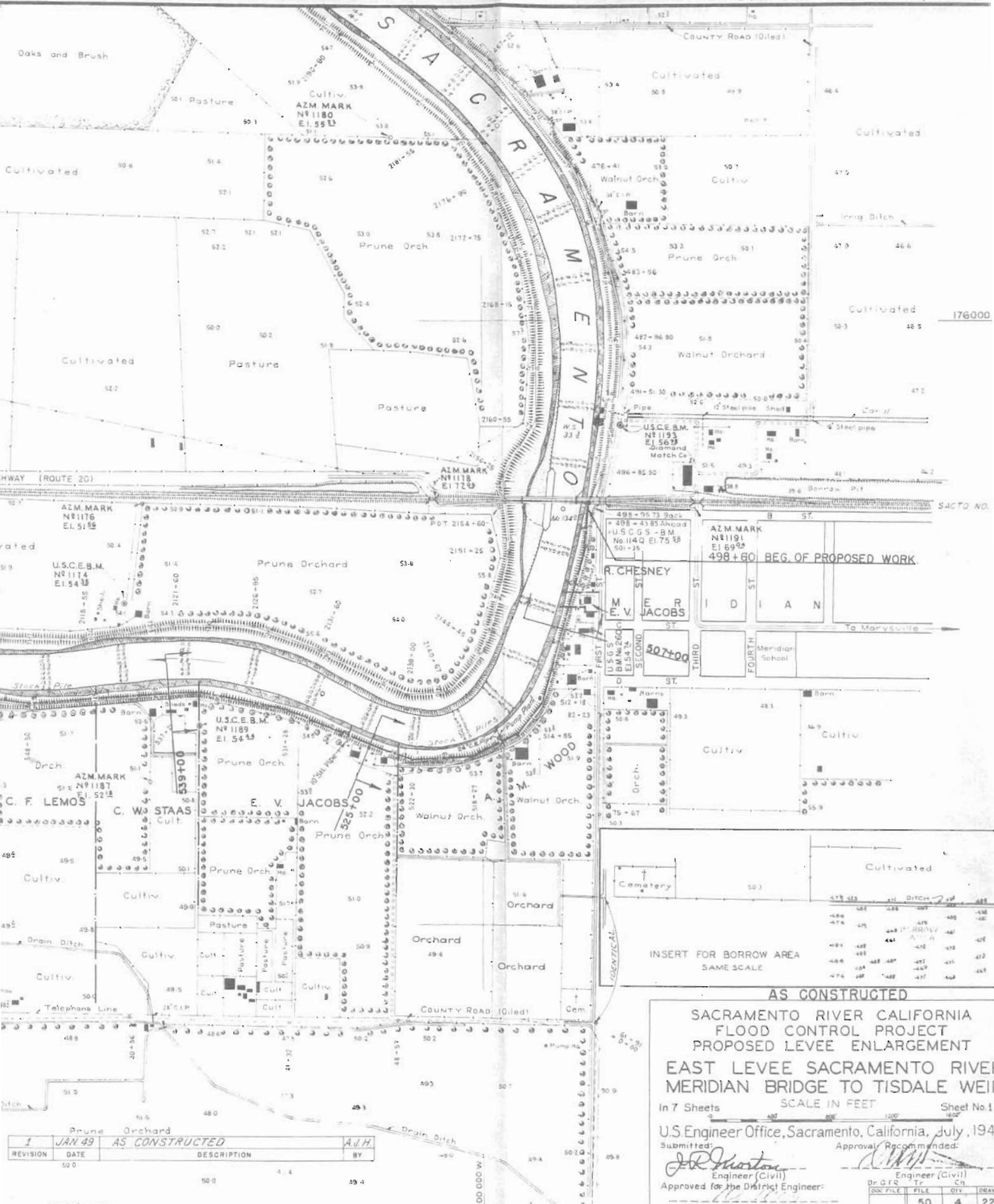
(e) Beginning and Completion of Construction. Construction was started 1 October 1946, and completed 23 May 1947.

(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").

<u>File No.</u>	<u>Title</u>
50-4-2287 (7 sheets)	Levee enlargement, East Levee Sacramento River Meridian Bridge to Tisdale Weir
50-4-2337 (1 sheet)	Retaining Wall at Station 504+50 (Construction Details)
50-4-2339 (1 sheet)	Concrete Structure at Station 555+09 (Construction Details)

2. Maintenance and Operation. The levee and all structures within this unit should be maintained and operated in accordance with "Title 33 - Navigation and Navigable Waters, Part 208 - Flood Control Regulations," as covered by Exhibit "A", sheets 1 and 2 of the Standard Operations 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 was accepted by the Reclamation Board of the State of California on 2 July 1947, as shown on the attached resolution, Exhibit "F".



176000

SACTO NO.

REG. OF PROPOSED WORK.

R. CHESNEY
M. E. V. JACOBS
INDIAN
WOOD

507+00
FIRST
SECOND
THIRD
FOURTH

INSERT FOR BORROW AREA
SAME SCALE

498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
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AS CONSTRUCTED

SACRAMENTO RIVER CALIFORNIA
FLOOD CONTROL PROJECT
PROPOSED LEVEL ENLARGEMENT
EAST LEVEE SACRAMENTO RIVER
MERIDIAN BRIDGE TO TISDALE WEIR

In 7 Sheets SCALE IN FEET Sheet No. 1

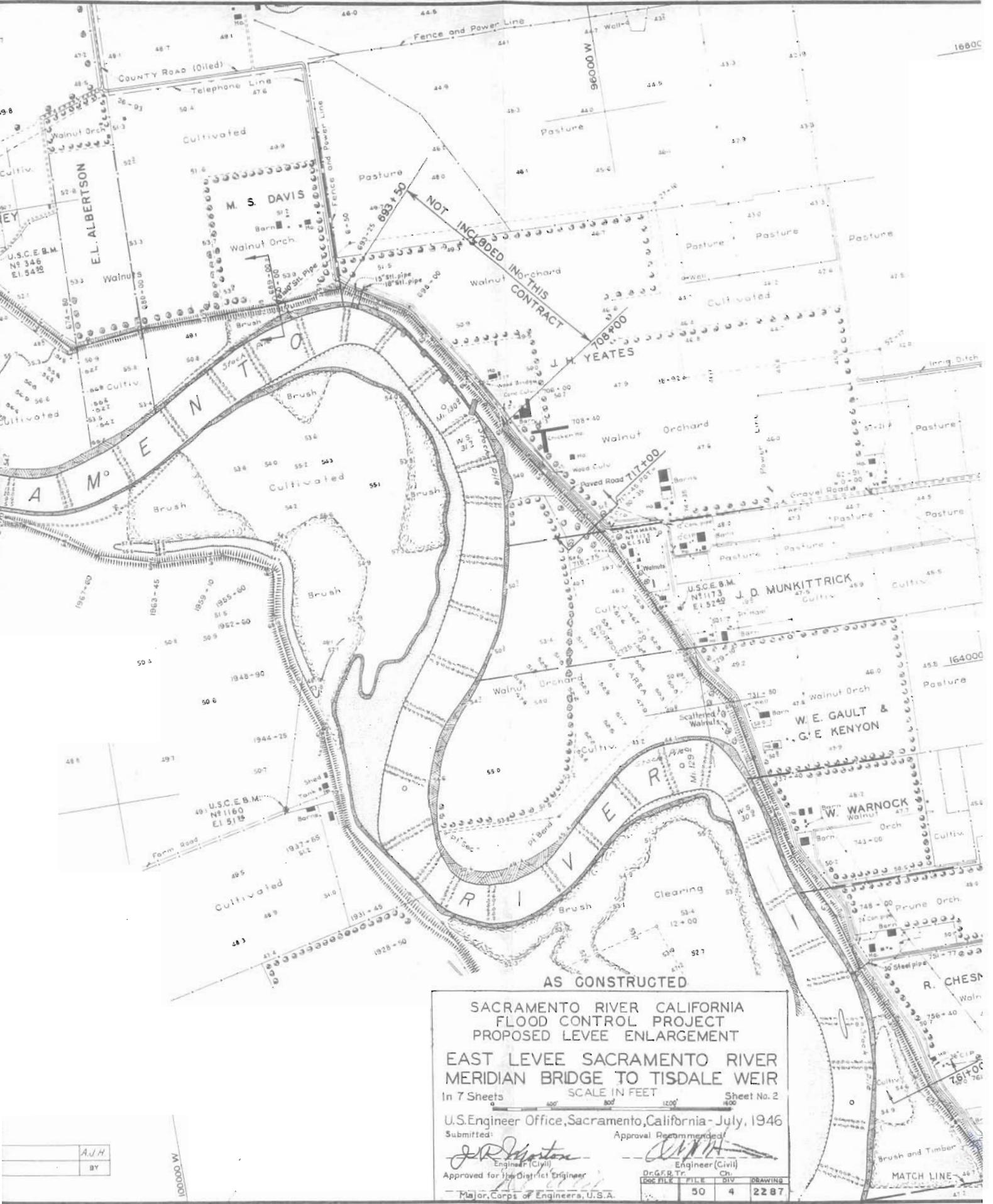
U.S. Engineer Office, Sacramento, California, July, 194

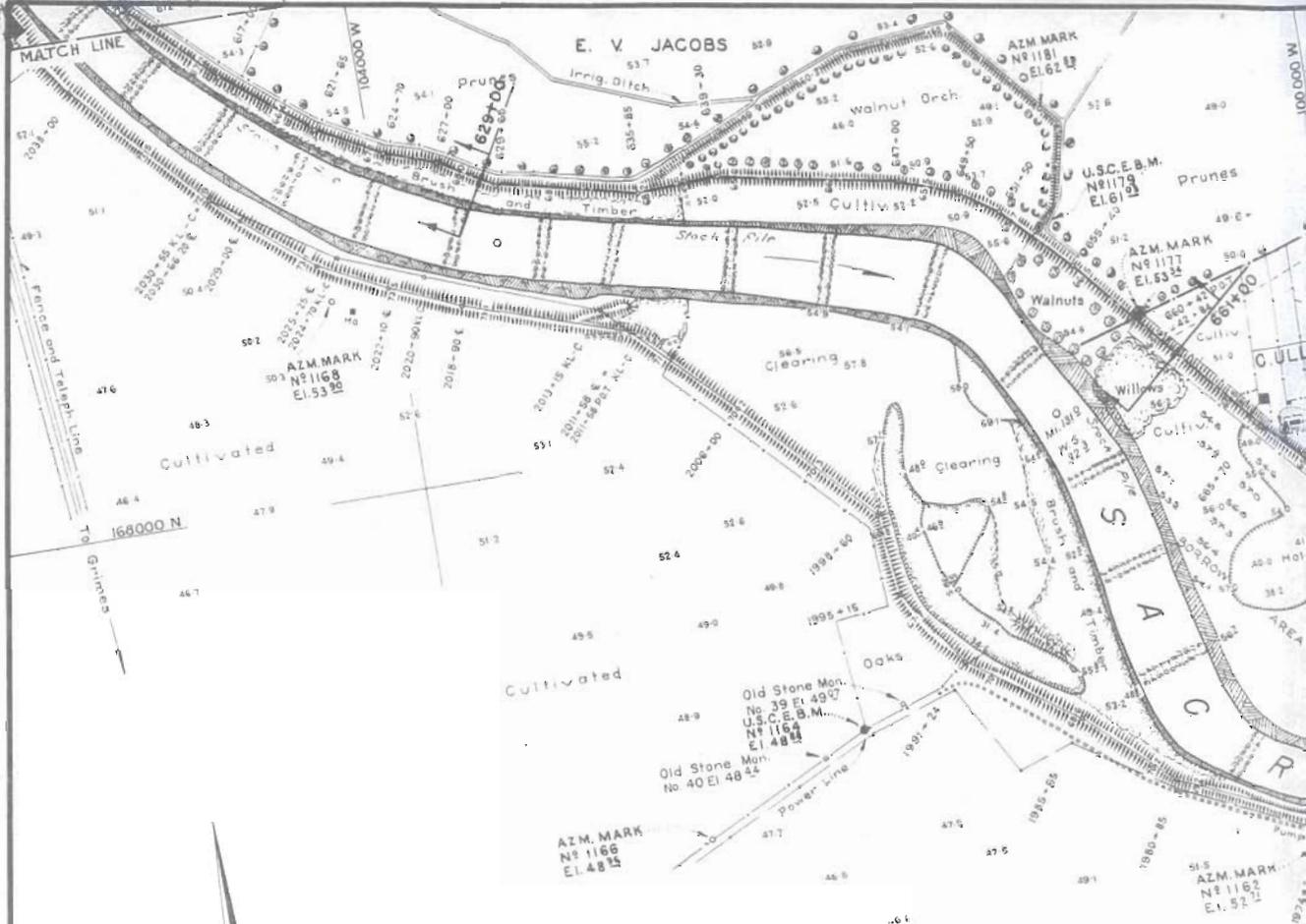
Submitted: *J.R. Houston* Engineer (Civil)
Approved for the District Engineer: *[Signature]* Engineer (Civil)

Dr. G.R. TR. CH. DRAW
50 4 22

Major, Corps of Engineers, U.S.A.

REVISION	DATE	DESCRIPTION	BY
1	JAN 49	AS CONSTRUCTED	A.J.H.
	500		59-4

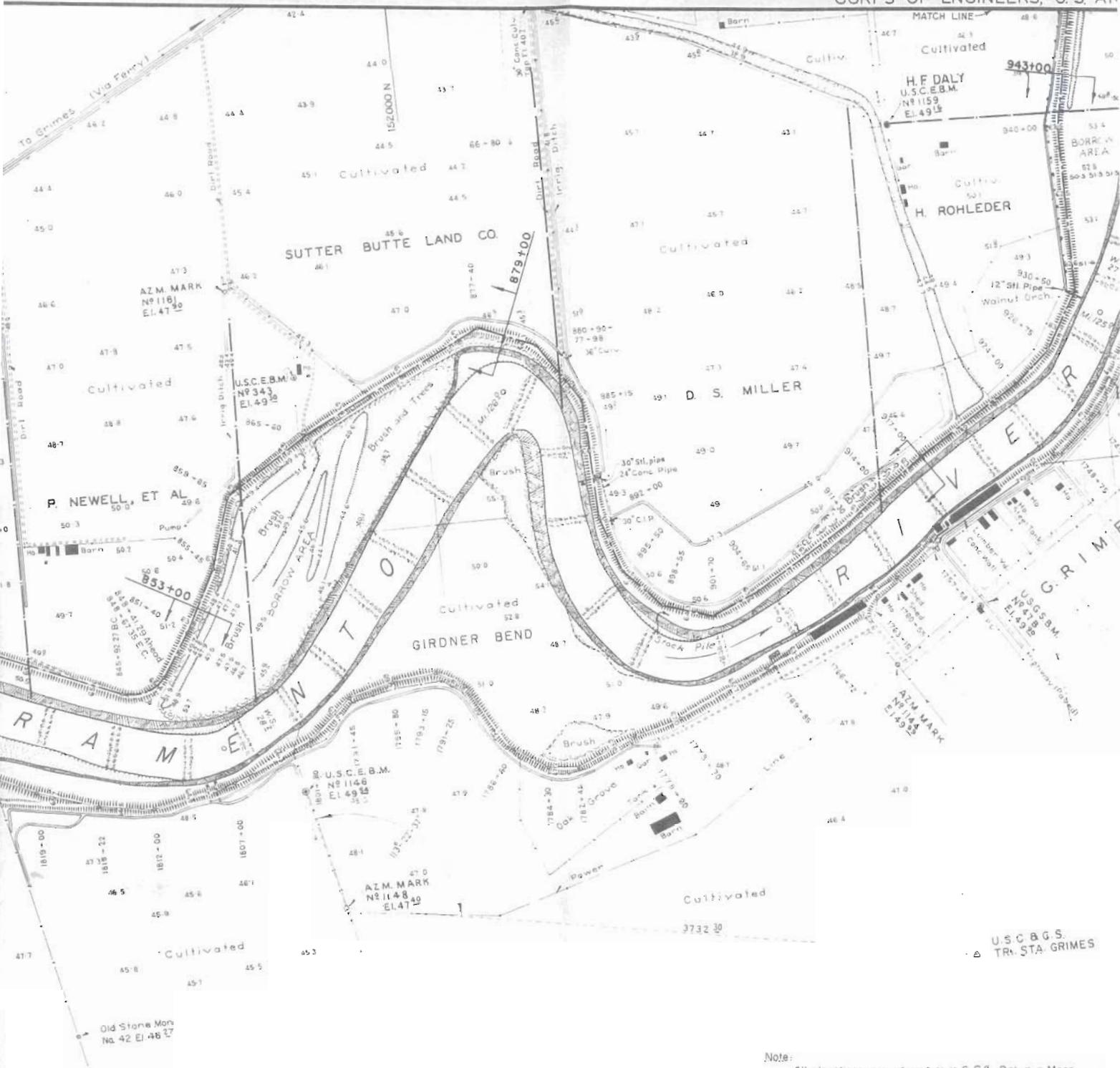




164000 N

Note:
 All elevations are referred to U.S.C.E. Datum = Mean
 Lower Low Water Suisun Bay = 3.6 ft. Below Mean Sea Level

REVISION	DATE	DESCRIPTION
1	JAN. 49	AS CONSTRUCTED



Note:
 All elevations are referred to U.S.C.E. Datum + Mean
 Lower Low Water Suisun Bay + 3.6 ft Below Mean Sea Level

AS CONSTRUCTED

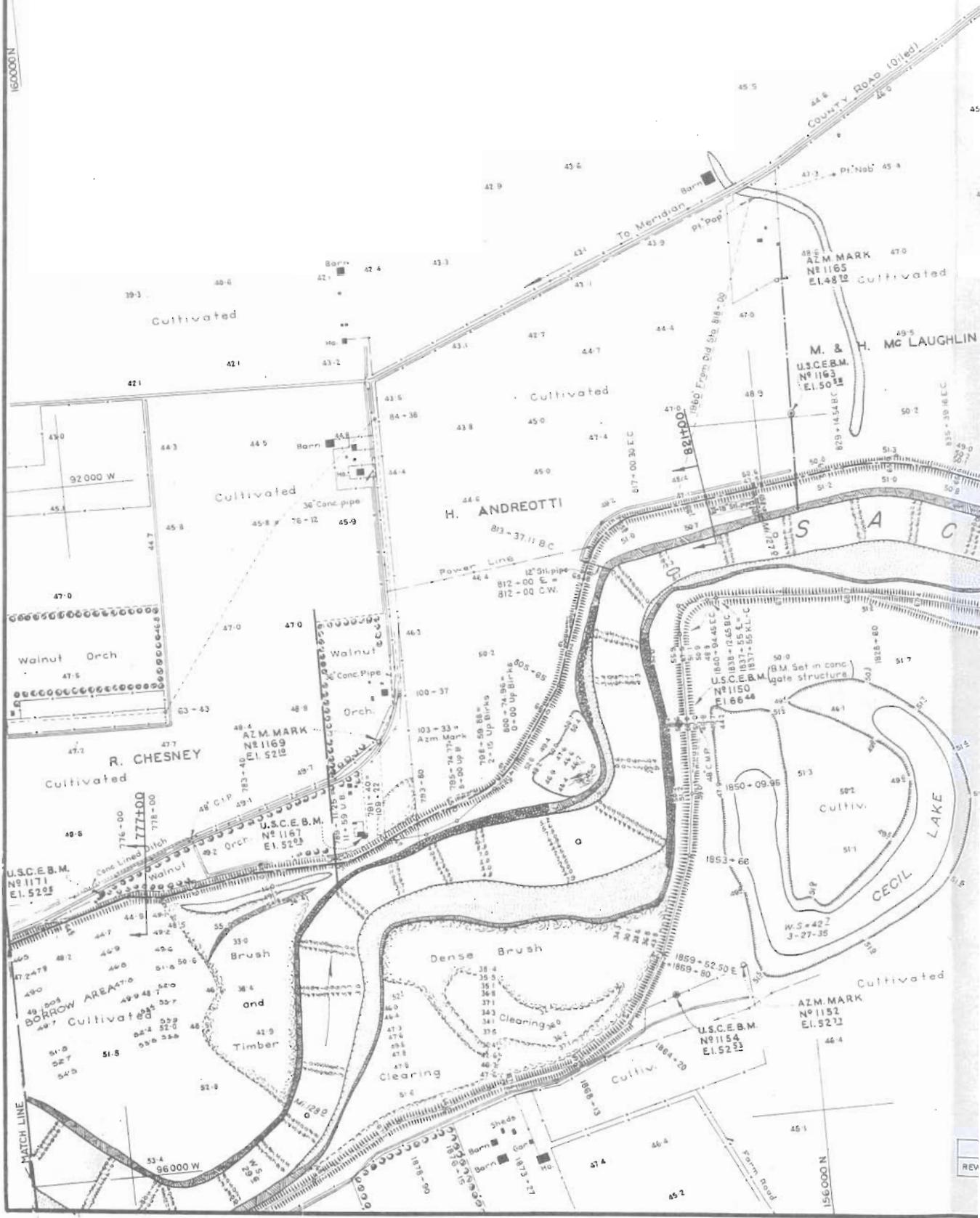
SACRAMENTO RIVER (CALIFORNIA)
 FLOOD CONTROL PROJECT
 PROPOSED LEVEE ENLARGEMENT
 EAST LEVEE SACRAMENTO RIVER
 MERIDIAN BRIDGE TO TISDALE WEIR
 In 7 Sheets SCALE IN FEET Sheet No. 3

U.S. Engineer Office, Sacramento, California July, 194
 Submitted: *J. P. Horton* Engineer (Civil)
 Approved for the District Engineer: *Dr. G. P. R. ...* Major, Corps of Engineers, U.S.A.
 Approval Recommended: *[Signature]* Engineer (Civil)
 CH. 4 22

DATE	DESCRIPTION	BY
JAN 49	AS CONSTRUCTED	A.V.H.

156000 N

156000 N



Cultivated

Cultivated

H. ANDREOTTI

R. CHESNEY

U.S.C.E.B.M. No 1171 El. 5293

U.S.C.E.B.M. No 1167 El. 5293

BORROW AREA

Dense Brush

U.S.C.E.B.M. No 1154 El. 5293

AZM. MARK No 1152 El. 5293

CECIL LAKE

M. & H. MC LAUGHLIN

AZM. MARK No 1165 El. 4812

MATCH LINE

96000 W

156000 N

REV



AS CONSTRUCTED

SACRAMENTO RIVER CALIFORNIA
FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
EAST LEVEE SACRAMENTO RIVER
MERIDIAN BRIDGE TO TISDALE WE

In 7 Sheets Scale: in Feet Sheet N

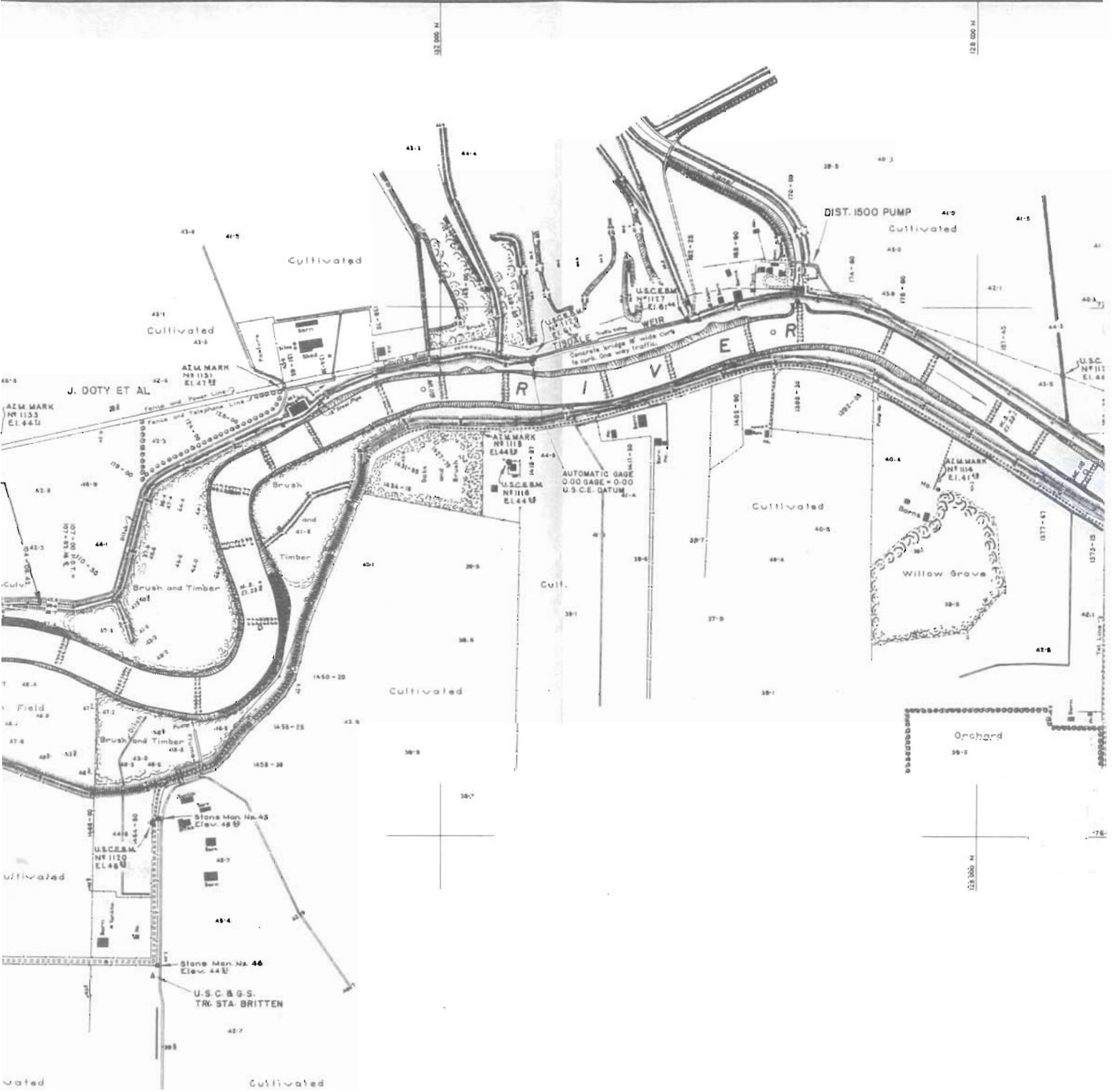
U.S. Engineer Office, Sacramento, California July, 19--

Submitted: *J.R. Horton* Approved: *[Signature]*

Approved for the District Engineer: *[Signature]* District Engineer (Civil)

Major, Corps of Engineers, U.S.A.

Dr. E. R. ...	FILE	REV.	DATE
26	4	1	



AS CONSTRUCTED

SACRAMENTO RIVER CALIFORNIA
 FLOOD CONTROL PROJECT
 PROPOSED LEVEE ENLARGEMENT
 EAST LEVEE SACRAMENTO RIVER
 MERIDIAN BRIDGE TO TISDALE WEIR

In 7 Sheets Scale in feet Sheet No. 4

U.S. Engineer Office, Sacramento, California July, 19

Submitted: *J.R. Thornton*
 Approved for the District Engineer: *[Signature]*
 Engineer (Civil)
 Major Corps of Engineers, U.S.A.

50	4
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EXHIBIT "B" PLAN

REVISION	DATE	DESCRIPTION	BY
1	JAN. 29	AS CONSTRUCTED	A.C.N.

152 000 N

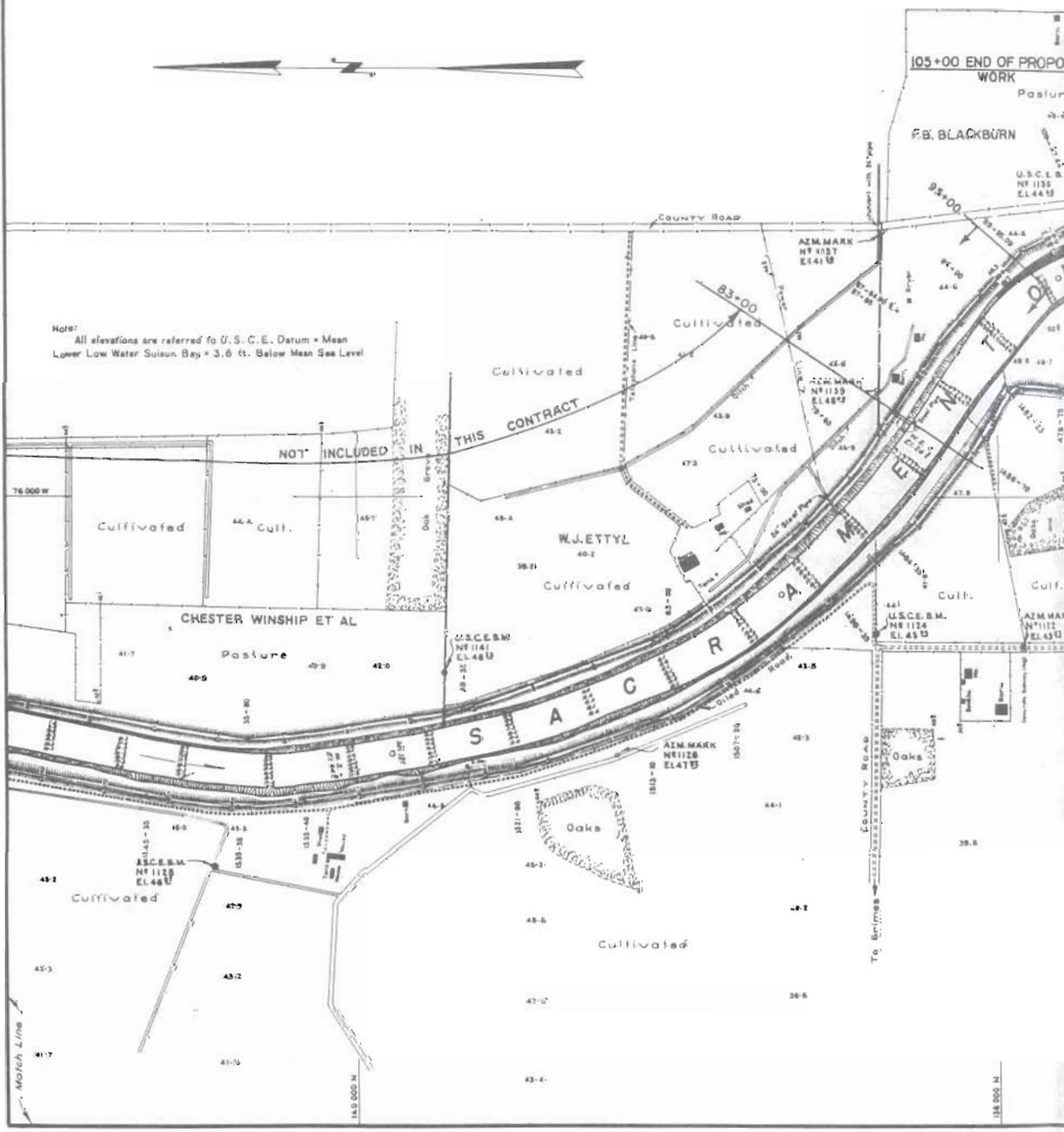
72 000 W

145 000 N

138 000 N



Note: All elevations are referred to U.S.C.E. Datum + Mean Lower Low Water Suixun Bay + 3.6 ft. Below Mean Sea Level



105+00 END OF PROPOSED WORK

Pasture F.B. BLACKBURN

U.S.C.E.M. N° 1135 E 144° 13'

COUNTY ROAD

AZM MARK N° 1137 E 141° 13'

83+00

Cultivated

NOT INCLUDED IN THIS CONTRACT

76 000 W

Cultivated

44.4 Cult.

149° 17'

CHESTER WINSHIP ET AL

Pasture

40.9

40.9

42.0

U.S.C.E.M. N° 1141 E 148° 13'

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

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48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

48-35-35

AZM MARK N° 1126 E 147° 13'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

183° 08'

COUNTY ROAD

Oaks

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

44-1

Match Line

145 000 N

138 000 N

Remove and Save 60 Lin. ft of 21" Diam Riveted Steel Pipe.
 d Install 60 Lin. ft 24" Diam. No. 12 Ga. Corr. Metal Pipe,
 tal Cut-Off Walls and Calco No. 10 Gate
 Construct Concrete Collar at Connection of New
 Existing Concrete Pipe on L.S.
 d Waste R.S. Inlet Structure
 ruct New Structure.
 Steel Pipe. Furnish and Install
 n Cut-Off Plate and 1" Cock and

589+82 Remove and Save Approx 65 Lin. ft of 18" Diam. C
 Metal Pipe. Furnish and Install 56' Lin. ft of 24" Diam. No.
 Ga. Corr. Metal Pipe, 1 Calco No. 10 Gate or Equal and 6 x
 C.M.P. No 10 Ga (Riser Pipe) and 2 Corr. Metal Cut-Off Walls
 Construct Conc. Saddle and Apron.

574+00 to 580+00 and 584+00 to 588+00 Clear and
 Shape Crown of Existing Levee for Surfacing.

597+50 Remove and Save Approx 65 Lin. ft
 of 18" Diam. Corr. Metal Pipe.

598+50 Construct H Type Road Approach,
 L.S., Surfaced.

610+82 Remove and Save 65 Lin.
 18" Diam. Riveted Steel Pipe. Furn
 and Install 70 Lin. ft of 24" D
 No 7 Ga Soil Proofed Steel Pi
 and 2 Corr. Metal Cut-Off Wa
 64100 to 648100, 624100 to 626100
 636100 to 638100 Clear and
 Shape Cr of Existing Leve for Surfacing



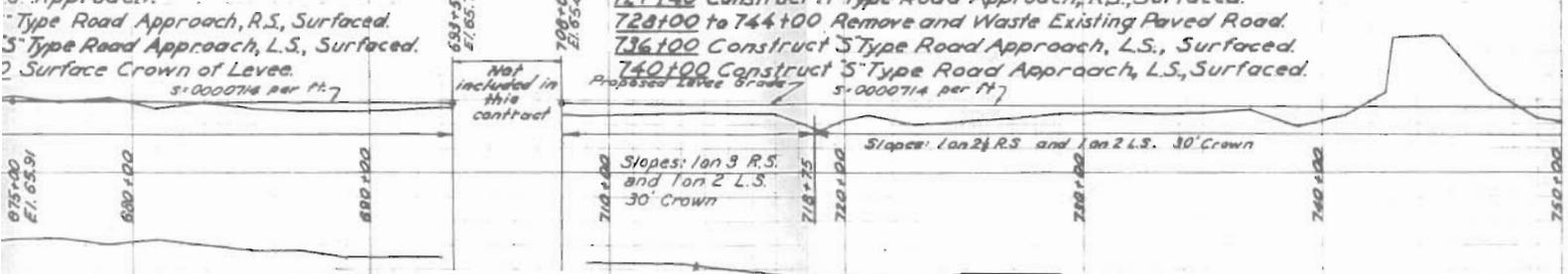
H Type Road Crossing,
 and Install 18"x26"
 concrete Pipe in L.S. Irrigation
 d Approach.

717+30 Construct H Type Road Approach, L.S., Surfaced

719+00 Construct Road Crossing Surfaced H Type R.S. and S Type L.S. 749+00 Construct S Type Road
 Approach, L.S., Surfaced.

639+50
 El. 65.78
 708+00
 El. 65.87
 Not included in
 this
 contract

726+00 Construct S Type Road Approach, L.S., Surfaced.
 727+40 Construct H Type Road Approach, R.S., Surfaced.
 728+00 to 744+00 Remove and Waste Existing Paved Road.
 736+00 Construct S Type Road Approach, L.S., Surfaced.
 740+00 Construct S Type Road Approach, L.S., Surfaced.

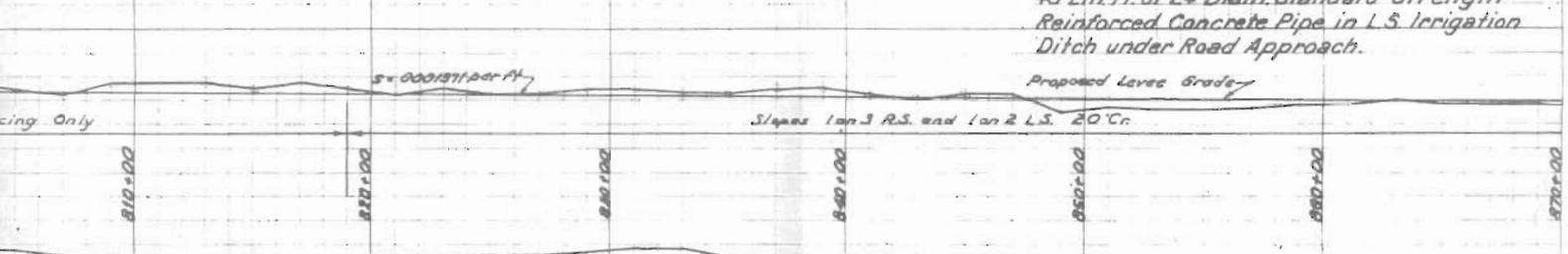


S., Surfaced, 30 ft. Width, 6 1/4 Grade
 ch, R.S., Surfaced.
 t. of 36" Diam. Riveted Steel Pipe
 of 18" Diam. Riveted Steel Pipe.

748+00 to 770+00 Remove and Waste Existing
 Paved Road

749+00 Construct S Type Road
 Approach, L.S., Surfaced.

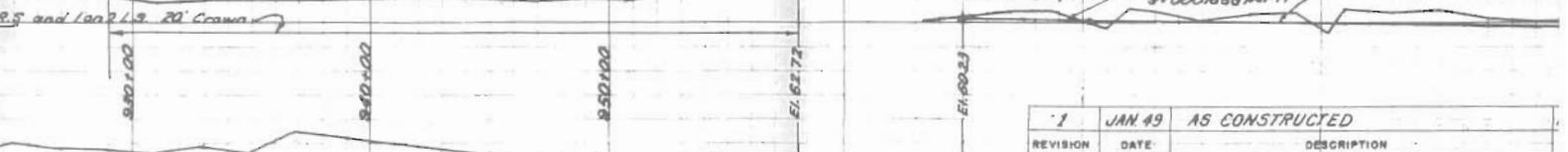
865+50 Construct H Type Road
 Crossing, Surfaced. Furnish and Install
 45 Lin. ft. of 24" Diam. Standard Strength
 Reinforced Concrete Pipe in L.S. Irrigation
 Ditch under Road Approach.



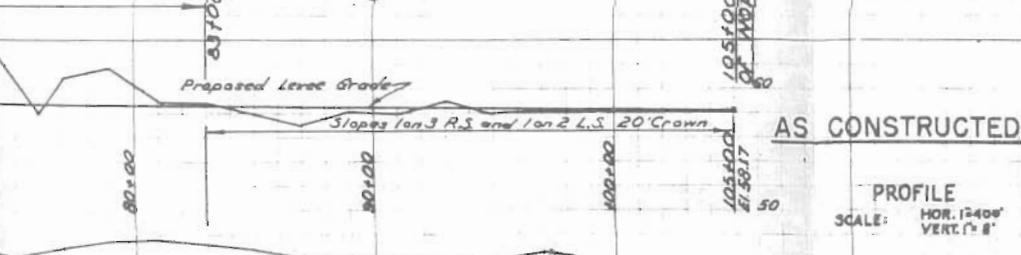
22 Remove and Save Approx. 75 Lin. ft. of 12" Steel Pipe.
 ish and Install 85 Lin. ft. of 12" Diam. No. 7 Ga. Soil
 proofed Steel Pipe, 1 Iron Cut-Off Plate and 1" Cock
 Air Valve, With Necessary Fittings and Cover

940 Construct S Type Road Approach, R.S. Surfaced.
 940 to 948+00 Construct Berm Fill, R.S., to Elevation of
 Prepared Levee Grade Adjacent Natural Ground.

Not in this Contract



101+00 Construct S Type Road
 Crossing, Surfaced.



1	JAN 49	AS CONSTRUCTED
REVISION	DATE	DESCRIPTION

SACRAMENTO RIVER, CALIFORNIA
 FLOOD CONTROL PROJECT
 PROPOSED LEVEE ENLARGEMENT
 EAST LEVEE SACRAMENTO RIVER
 MERIDIAN BRIDGE TO TISDALE WE
 PROFILE

IN 7 SHEETS Indicated Scale Reduced To Half Size SHEET N
 U.S. Engineer Office, Sacramento, California July 1946
 Submitted: Approval Recommended:
 J.R. Querton
 Engineer (Civil)
 Approved for the Dist. Engr.
 Major, Corps of Engineers, U.S.A.

PROFILE
 SCALE: HOR. 1"=40'
 VERT. 1"=8'

Dr.	Tr.	Ch.
50	4	1

450+00 - MIDDIAN
BRIDGE
ELEVATION OF PROPOSED
WORK

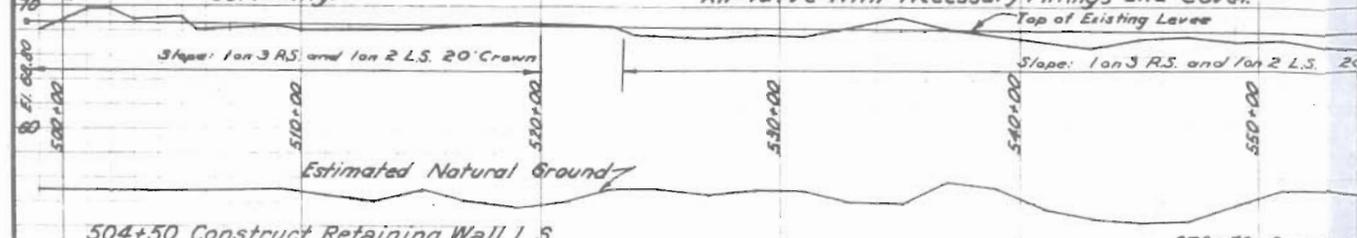
510+00 Construct Road Crossing, Surfaced, S Type R.S., H Type L.S.
510+00 to 693+50, Surface Crown of Levee.

516+00 Remove 24" Diam. Calco No. 101 Gate. Remove and Save 68 Lin. ft. of 24" Diam. Riveted Steel Pipe. Furnish and Install 68 Lin. ft. of 24" Diam. No. 12 Ga. Corr. Metal Pipe and 2-Corr. Metal Cut-Off Walls. Reinstall Calco No. 101 Gate.

520+00 to 523+50 Clear and Shape Cr. of Existing Levee for Surfacing.

526+71 Remove and Save 80 Lin. ft. of 10" Diam. Riveted 90 Lin. ft. of 10" Diam. No. 7 Ga. Soil Proofed Steel Pipe, 1 Air Valve With Necessary Fittings and Cover.

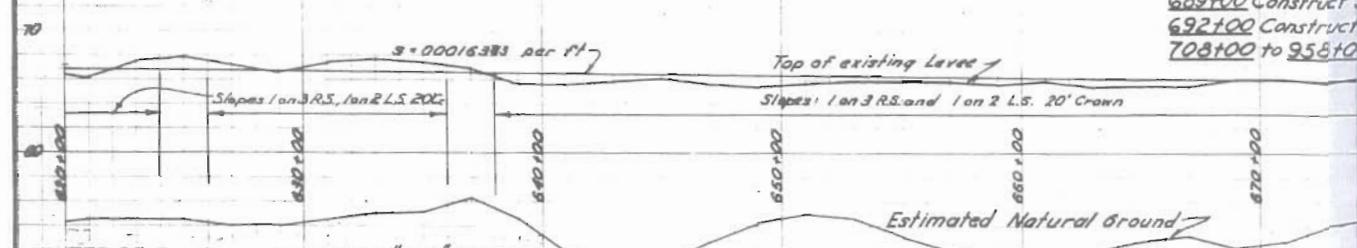
555+09 Furnish and 2 Corr. Me on Equal. Pipe With Remove and Cons. and Cons.



504+50 Construct Retaining Wall L.S.

668+50 Construct S Type Road Approach, L.S. Surfaced.
674+50 Construct H Type Road Approach, R.S. Surfaced.

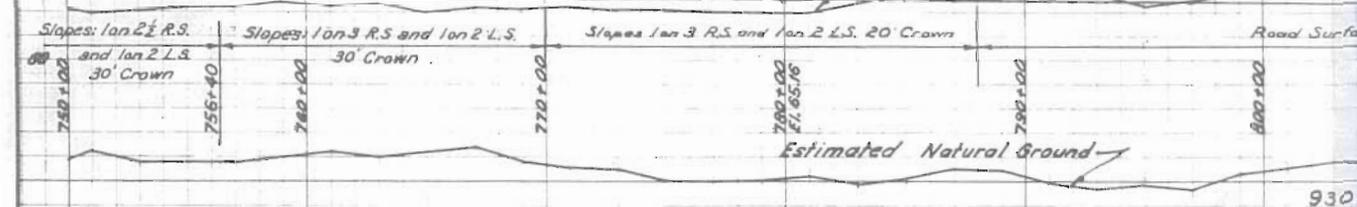
679+50 Construct Surfaced. Furnish Reinforced Co. Ditch under Ro.
689+00 Construct
692+00 Construct
703+00 to 958+00



751+80 Furnish and Install 30"x120" Steel Pipe. Furnish and Install 2-78"x78"x3/8" Steel Cut-off Plates 30" Pipe. Remove and Waste Reinforced Concrete Pump Pit and Motor Base. Remove and Salvage Galvanized Pumphouse. Remove and save Approx. 40 Lin. ft. of 30" Steel Pipe and Approx. 70 Lin. ft. of 20" Steel Pipe.

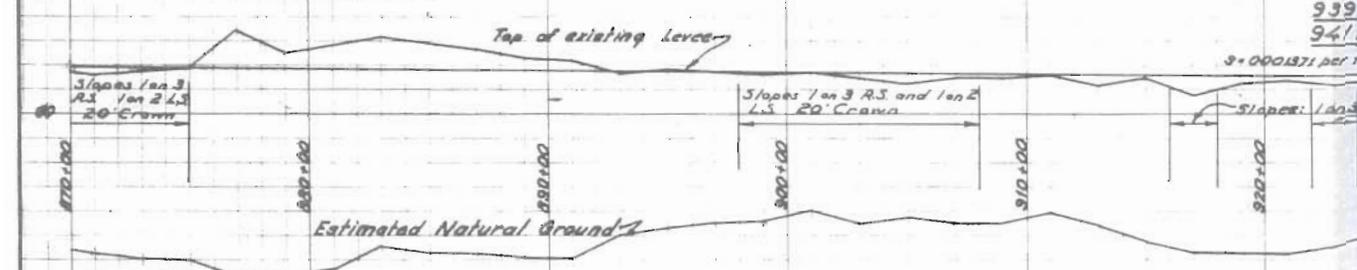
755+75 Construct S Type Road Approach.
773+00 Construct H Type Road Approach
780+92 Remove and Save Approx. 100 Lin. ft.
781+12 Remove and Save Approx. 95 Lin. ft.

762+50 Construct S Type Road Crossing, Surfaced.
765+30 Construct H Type Road Approach, L.S., Surfaced.

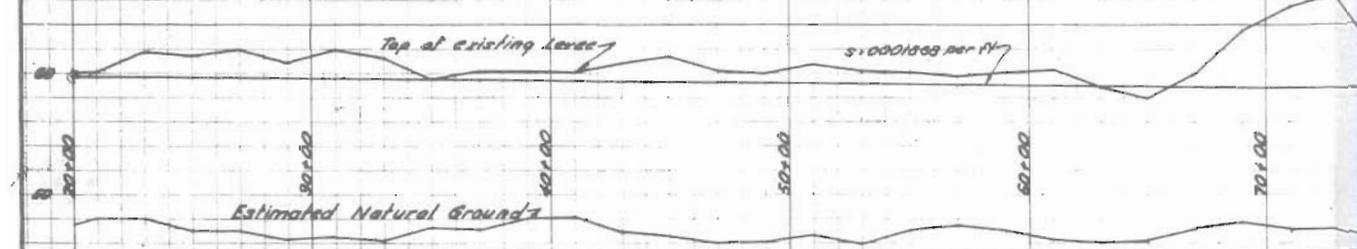


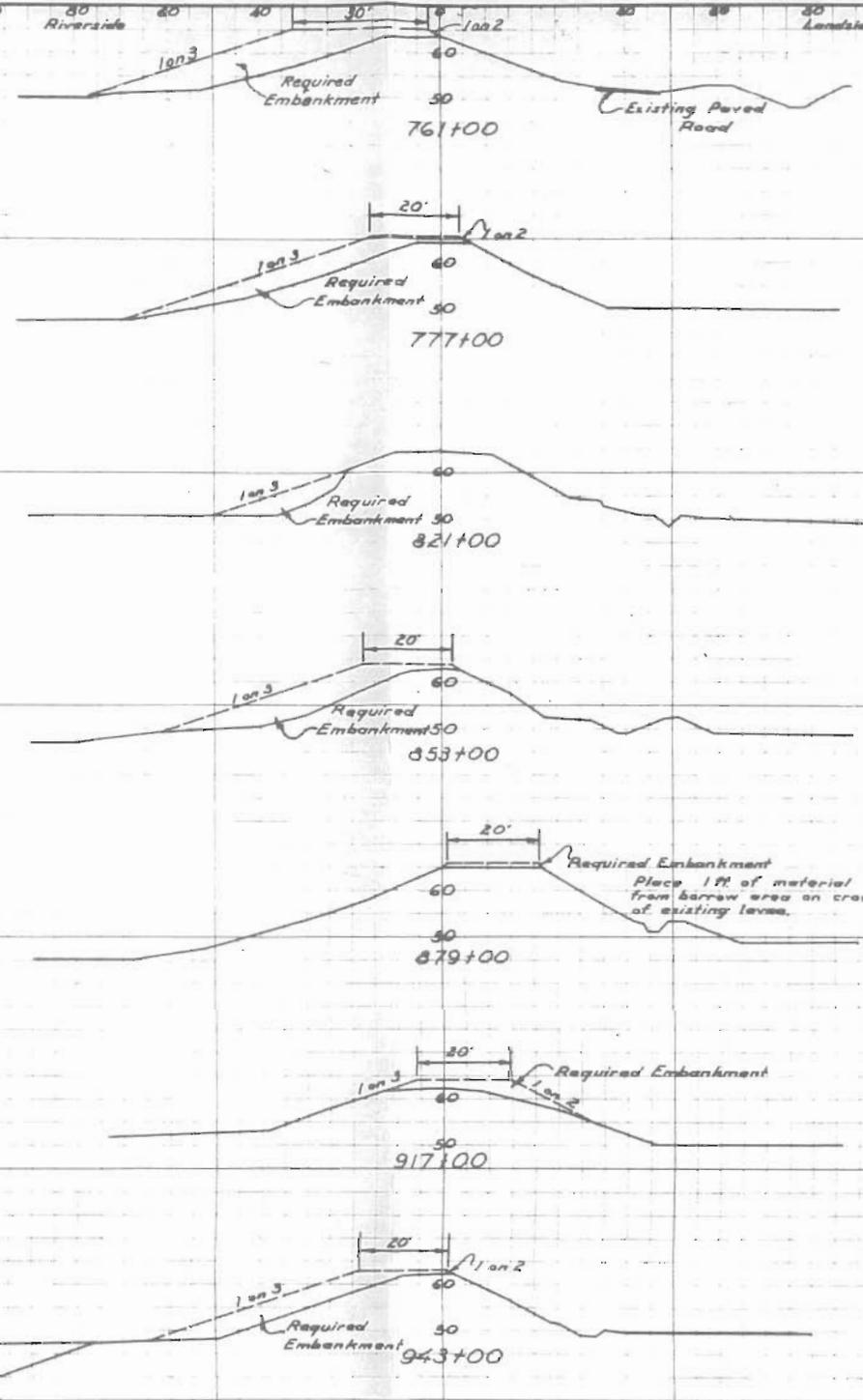
892+00 Construct S Type Road Approach, L.S., Surfaced.
873+00 to 898+00, 908+00 to 916+00, 918+00 to 922+00 and 924+00 to 929+00. Place 1ft. of Material from Borrow Area on Crown of Existing Levee.

930 Furn
939 Pro
941 and



Not in this Contract





Notes: Levee Crown And Road Approach Surfacing
 Station 510+00 to 693+50 Road Mix Surfacing 12'x2"
 " 708+00 to 770+00 Crushed Rock Surfacing 20'x4"
 " 770+00 to 958+00 " " " 12'x3"

All Road Approaches 14' width, 3% grade unless otherwise specified.

Where 12 ft wide surfacing is specified, turnouts are to be provided at intervals of 1000 ft by increasing the width 3 ft on each shoulder for a distance of 50 ft

Note: All elevations are referred to U.S.C.E. Datum = Mean Lower Low Water Suisun Bay = 3.6 ft Below Mean Sea Level

DATE	DESCRIPTION	BY
7/49	AS CONSTRUCTED	A.J.H.

AS CONSTRUCTED

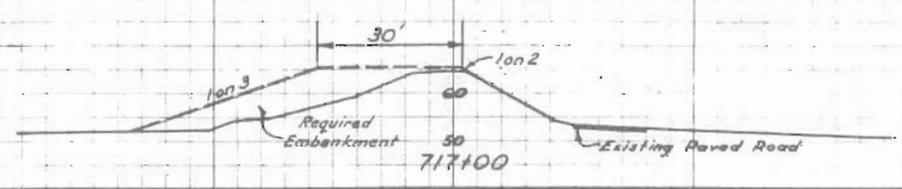
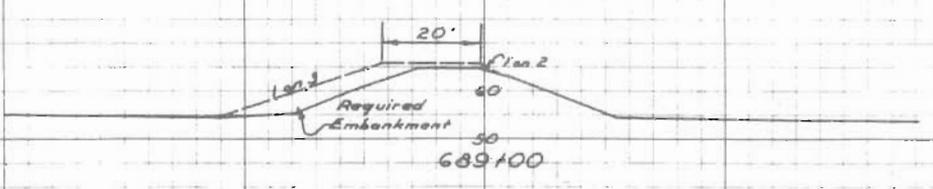
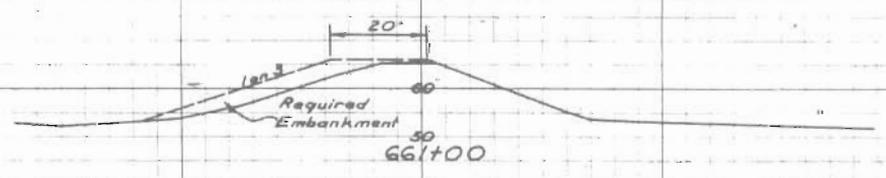
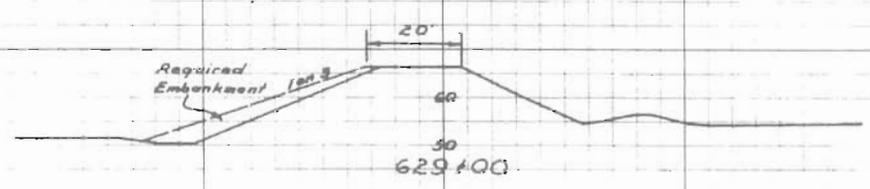
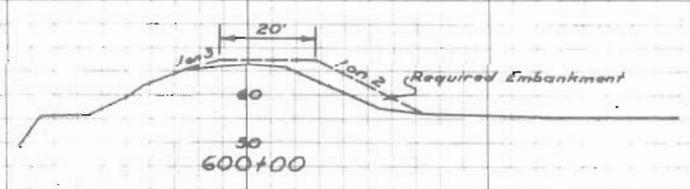
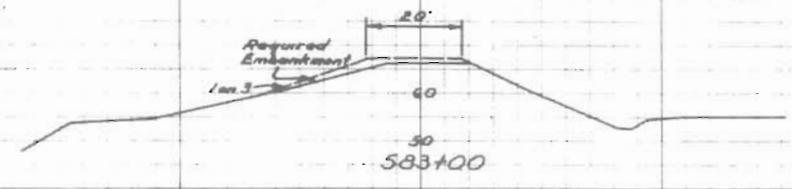
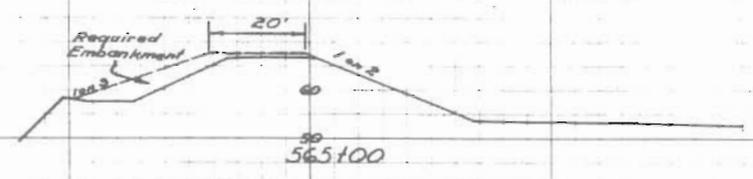
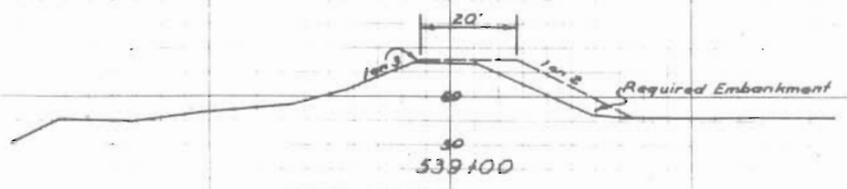
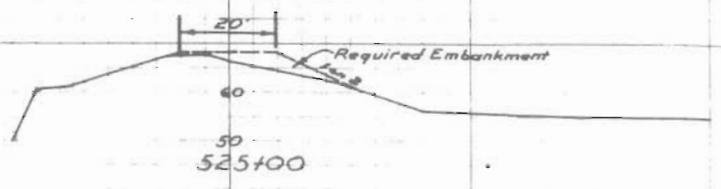
SACRAMENTO RIVER, CALIFORNIA
 FLOOD CONTROL PROJECT
 PROPOSED LEVEE ENLARGEMENT
 EAST LEVEE SACRAMENTO RIVER
 MERIDIAN BRIDGE TO TISDALE W
 TYPICAL SECTIONS

IN 7 SHEETS Indicated Scale Reduced To Half Size SHEET
 U. S. Engineer Office, Sacramento, California, July, 194

Submitted: *[Signature]* Approval Recommended: *[Signature]*
 Engineer (Civil) Engineer (Civil)
 Approved for the District Engineer: *[Signature]*
 Major, Corps of Engineers, U. S. A.

Dr. R.L.G.	Tr. R.L.G.	Ch.
50	4	

120 100 80 60 40 20 0 20 40 60 80 100
Riverside Landside



1	JA
REVISION	0

CHECK LIST NO. 2

Drainage structures located along the easterly bank of the Sacramento River between Meridian Bridge and Tisdale Weir, approximately 50 miles northwest of Sacramento, California, as shown on Drawing No. 50-4-2287, in 7 sheets.

HIGHWATER PERIOD. This term is used under paragraph 4-02 (c) 3b of the Standard Operation and Maintenance Manual; it applies to floods rising above the reading of 65.4 on the Division of Water Resources station located on the downstream side of the Sacramento Northern Railway Bridge across the Sacramento River at Meridian, California. Continuous water stage recorder and staff gage set on U.S.C.E. Datum.

6. Structures Affecting Levee Maintenance Works:

Location Station	Corr. Metal Pipe	Gates Model No.	Steel Pipe	Other Structure Description	Elevation of Invert at Pipe
2+07 (Winship-Kirk Traverse)	-	2-101	15"	Pump on conc. base on R.S. bank. Water-flow to and from conc. pit, located on R.S. berm, controlled by the two Calco gates.	45.0
10+11 (Winship-Kirk Traverse)	-	None	24"	Pipe abandoned. R.S. end flush with conc. headwall and plugged with concrete. L.S. end of pipe could not be located.	43.5
10+25 (Winship-Kirk Traverse)	-	Gate with long stem (home-made) on R.S.	24"	Pump-house with deep conc. pit on L.S. Pump at bottom of pit. Water discharged thru 30" pipe into conc.-lined ditch.	30.4
76+10.5 (Winship-Kirk Traverse)	-	None	24"	Pump connected with conc. spillbox on R.S. berm by 8" steel pipe. 24" pipe runs from spillbox thru levee and discharges into open ditch.	44.9

CHECK LIST NO. 2 (Continued)

Location Station	Corr. Metal Pipe	Gates Model No.	Steel Pipe	Other Structure Description	Elevation of Invert at Pipe
82+84.5 (Winship-Kirk Traverse)	-	101(R.S.)	15"	L.S. end of pipe totally and R.S. end of pipe partially buried. Structure shows evidence of not having been used for some time.	45.3
133+38.5 (Winship-Kirk Traverse)	-	See "Other Structure Description"	18"	Corr. metal pump-house on L.S. 12" suction pump, powered by 75 H.P. motor, at bottom of 12'x15'x15' concrete pump pit. 18" discharge pipe runs 15' from pump to 5'x24' conc. headwall at beginning of open conc.-lined ditch. Discharge equipped with valve in pump pit. Valve on R.S. underground; stem extends 9-1/2' above ground and is operated from a wooden platform (in poor condition).	34.5
516+06	24"	101(R.S.)	-	Pump-house on high conc. foundation. Pump discharges into adjoining conc. pit. Flow from pit into 24" pipe regulated by 101 gate. Distribution box with three outlets on L.S. Flow from distribution box regulated by three 18"x24" sliding steel gates. Conc. pit on R.S. equipped with extra 24" opening on downstream side.	53.2
526+71	-	None	10"	Pump on slope of R.S. bank. Pipe equipped with air-valve at R.S. crown. At L.S. end of pipe shut-off valve (not standard make). Installation includes one iron cut-off plate.	64.9

Exhibit "E" (sheet 2 of 6)

CHECK LIST NO. 2 (Continued)

Location Station	Corr. Metal Pipe	Gates Model No.	Steel Pipe	Other Structure Description	Elevation of Invert at Pipe
555+09	24"	101(R.S.)	-	Pump on platform on R.S. bank. Motor located in small pump-house. Pump discharges into conc. box on R.S. berm. Pipe runs from conc. box through levee; its L.S. end is anchored in wall of partially destroyed conc. box.	53.8
589+82	24"	101(R.S.)	-	101 gate in 36" C.M.P. gate-well section on R.S. L.S. end of pipe anchored in concrete saddle and apron.	53.4
610+84	-	101(R.S.) 100(L.S.)	24"	Deep-well pump mounted on wooden platform, supported by piling. Pipe equipped with 101 gate in steel well on R.S. and with 100 gate at conc. distribution box on L.S. Flow from distribution box regulated by flashboards.	54.2
689+50	-	None	8" to 10"	Pump in open conc. structure on R.S. Pipe 8" on R.S. and 10" on L.S. Pipe discharges into conc. pit on L.S. Flow from pit controlled by flashboards.	45.3
694+50	-	None	15"	Pump installed in open conc. structure on R.S. Pipe discharges into conc. pit on L.S. Flow from pit regulated by two 101 gates.	51.2

Exhibit "E" (sheet 3 of 6)

CHECK LIST NO. 2 (Continued)

Location Station	Corr. Metal Pipe	Gates Model No.	Steel Pipe	Other Structure Description	Elevation of Invert at Pipe
694+85	-	101(R.S.)	18"	Pump on top of bank, R.S. Pump discharges into conc. box at R.S. toe. Pipe runs from R.S. box through levee to conc. box on L.S. Flow from L.S. distributing box regulated by flashboards.	51.3
751+80	-	None	30"	On R.S., 60 H.P. deep-well turbine pumping plant mounted on a 12'x20' platform supported by piles. Platform covered by roof and accessible from levee by 4.5'x50' catwalk. Steel pipe equipped with two 78"x78"x3/8" cut-off plates. In addition 30" pipe is fed by a 12" impeller-type pump through a 12" pipe on the R.S. bank slope.	45.2
813+00	-	None	12"	R.S. end of pipe buried. Pipe discharges into partially destroyed wooden distributing box on L.S. Pipe equipped with air-valve and cover at L.S. crown.	62.9
824+00	-	2-100(L.S.)	2-18"	Two 50 H.P. slope pumps mounted on steel platform on top of river bank. Pipes discharge into concrete distributing box at L.S. toe. Pipes equipped with air-valves at L.S. crown. Flow from distributing box regulated by flashboards.	62.0

CHECK LIST NO. 2 (Continued)

Location Station	Corr. Metal Pipe	Gates Model No.	Steel Pipe	Other Structure Description	Elevation of Invert at Pipe
889+72 (Colusa-Winship Traverse)	-	See "Other Structure Description"	30"	Pump in open conc. pit on R.S. Pipe discharges into conc. box on L.S. Water-flow from box into irregularly shaped concrete-lined basin controlled by flashboards. Downstream flow from box into irrigation ditch regulated by 101 gate. Pipe equipped with electrically operated valve in pump pit on R.S.	38.5
930+22 (Colusa-Winship Traverse)	-	None	12"	Pump on R.S. Pipe discharges into conc. distribution box on L.S. Box has opening for flashboards on downstream side. Pipe equipped with outlet at R.S. toe and air-valve at L.S. crown.	60.0
1006+60 (Colusa-Winship Traverse)	-	None	18"	Pump-house with concrete pit on R.S. (pump-house on top of pit). Suction pipe is 18" steel pipe.	43.3
1007+10 (Colusa-Winship Traverse)	48"	1-101(R.S.) 3-100(R.S.)	50" & 40"(Concrete encased)	Large conc. pump-house with pit on L.S. C.M.P. equipped with two gates (one No. 101, and one No. 100), and the other two pipes with a No. 100 gate each; first two gates are located in gate wells. Flow into concrete encased pipes regulated by two electric valves inside of pump-house. Pumping plant consists of 4 pumps (2-36" and 2-34") This plant, belonging to Recl. Dist. No. 70, is used primarily for drainage purposes. Information on pumps and concrete encased steel pipes was supplied by Mr. Geo. Tarkey of Recl. Dist. No. 70.	48"-45.8 50" & 40" - 20.0

Exhibit "E" (Sheet 5 of 6)

CHECK LIST NO. 2 (Continued)

Location Station	Corr. Metal Pipe	Gates Model No.	Steel Pipe	Other Structure Description	Elevation of Invert at Pipe
1086+55 (Colusa-Winship Traverse)	-	See "Other Structure Description"	2-24" 1-15"	3 turbine pumps are mounted on the R.S. end of a platform, 110' long, 23.5' wide on R.S., and 18' wide on L.S. R.S. end of platform protected by two 4-pile dolphins. Valve-stems of valves in discharge lines project through platform. The 3 pipes spill into open ditch on L.S.; valves on 2 of these pipes permit diversion of water into pit which in turn discharges through a 36" steel pipe at one time equipped with flashboards.	24" pipes- 38.2 15" pipe- 38.7

R E S O L U T I O N

PASSED AND ADOPTED BY THE RECLAMATION BOARD

JULY 2, 1947

WHEREAS The Reclamation Board has heretofore approved certain items of "new construction"; consisting of (1) the enlargement, set back and construction of the East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, in Reclamation Districts Nos. 407 and 556; (2) enlargement, set back and construction of the East Levee of the Sacramento River from Meridian Bridge to Tisdale Weir, in Reclamation Districts Nos. 70 and 1660; and (3) the enlargement, set back and construction of the East Levee of the Sacramento River between River Miles 92.6 to 94.5, 99.3 to 101.2, and 110.8 to 111.5, in Reclamation District No. 1500; and

WHEREAS the War Department, Corps of Engineers, District Engineer Sacramento District, under date of June 23, 1947, has notified the Reclamation Board of the completion of the three items of levee enlargement, set back and construction, and has transferred said portions of levee to the State of California for maintenance and operation between proper local interests; and

WHEREAS the Chief Engineer of the Reclamation Board has caused to be made an inspection on the ground of the three items 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 three items of "new construction" as aforesaid, which have on the date above set forth been transferred to said Board by the War Department, U. S. District Engineer; and be it further

RESOLVED AND ORDERED that the East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 407, be, and the same is hereby turned over to Reclamation District No. 407 for maintenance and operation, as the legally authorized function of said district; and so much thereof as lies within Reclamation District No. 556 be, and the same is hereby turned over to Reclamation District No. 556 for maintenance and operation, as the legally authorized function of said district; and be it further

RESOLVED AND ORDERED that the East Levee of the Sacramento River, Meridian Bridge to Tisdale Weir, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 70 be, and the same is hereby turned over to Reclamation District No. 70 for maintenance and operation, as the legally authorized function of said district; and that so much thereof as lies within Reclamation District No. 1660 be, and the same is hereby turned over to Reclamation District No. 1660 for maintenance and operation, as the legally authorized function of said district; and be it further

RESOLVED AND ORDERED that the East Levee of the Sacramento River between Miles 92.6 to 94.5, 99.3 to 101.2, and 110.8 to 111.5, together with the berms and appurtenant structures thereof, be and the same is hereby turned over to Reclamation District No. 1500 for maintenance and operation, as the legally authorized function of said district.

STATE OF CALIFORNIA) -----
COUNTY OF SACRAMENTO) SS
Office of The Reclamation Board)

I, S. A. HOMAKER, Assistant Secretary of The Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution adopted by said Board at its meeting held July 2, 1947.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board this 15th day of July, 1947.

S. A. HOMAKER
Assistant Sec. The Reclamation Board