

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
THURSDAY, JUNE 29, 2022
9:00 AM
ENGINEER'S REPORT**

I. 2021-2022/ 2022-2023 ASSESSMENT BY LANDOWNER SUMMARIES

- A. Review the Districts Draft Assessment summaries calculated for 100%, 90%, and 80%, of the \$700,000 approved assessment.

EXHIBIT A: Assessment summaries 100%

EXHIBIT B: Assessment summaries 90%

EXHIBIT C: Assessment summaries 80%

II. PROJECT FUNDING AGREEMENT TW – 21 - 1.0 TIMES PROJECT

- A. Review matters associated with the District's ultimate levee standard along Sevenmile Slough together with a twenty foot (20') levee setback from toe for DWR's proposed mitigation area.

EXHIBIT D: Slides depicting the recommended setback for future Mitigation Bank, Mitigation Bank Plan Sets and some comparisons drafted by DWR

III. DELTA FLOOD – FULL SCALE EXERCISE

- A. Review and seek the Board of Trustees Authority to conduct the Delta Flood Full/Full-Scale Exercise scheduled for Thursday, August 25th. The exercise includes all of the RD's Delta wide including the 5 Delta Counties and DWR. Twitchell has been selected to have mini flood fight training led by DWR along with a demonstration of a flood fight exercise sacking an artificial boil over along the S.J. River by Oulton Point similar to what has been done in the past for CCC training etc. The exercise is an all-day event but likely the field portion on Twitchell will be in the 1st half of the day in the morning. All participants are to register <https://www.eventbrite.com/e/solano-county-delta-flood-functionalfull-scale-exercise-tickets-297727229157>. Any participant that is going to be in the field at Twitchell Island will be recognized by Sacramento County and covered by the Disaster Services Worker Volunteer Registration agreement (see attached). Rick and Ricky Jr. have already participated in the ½ day table top exercise (TTX) held for Sacramento County.
- B. It's anticipated 30 or less to be in the field for this portion of the exercise at Twitchell.

EXHIBIT E: Disaster Service Worker Volunteer Registration

IV. AB 360 DELTA LEVEE SUBVENTIONS PROGRAM

- A. Review and seek Board of Trustee authority to advertise for bidders for the 2022 Levee Improvement Project along the San Joaquin River between Levee Station 450+00 to 530+00.

EXHIBIT F: 2022 Levee Improvement PLANS between levee station 450+00 to 530+00

EXHIBIT G: 2022 Levee Improvement OPINION OF PROBABLE CONSTRUCTION COSTS between levee station 450+00 to 530+00.

V. DISTRICTS DRAINAGE PUMP STATIONS

- A. Review status to replace motor on Pump No 2.

Exhibit A

Reclamation District No. 1601

17-May-22

Assessment by Landowner - Fiscal Year 2021-2022

"AS IF" \$700,000 (100% of MAX ASSESSMENT)

DEPLETION VALUE CALCULATIONS

			2021-2022	2020-2021
A - 2021 RV Total Prod	(on line opi.consrv.ca.gov)	(MCF)	2,362,901	2,987,839
B - 2021 Twitchell Prod	(add all 1601 prod wells)	(MCF)	503,519	781,744
C - Net Present Value	(2020 base yr value NPV)		\$26,886,003	\$26,891,680
D - Total Reserves		(MCF)	13,950,000,000	13,950,000,000
E - Base Year Value per MCF	(C/D)	(\$/MCF)	\$0.0019	\$0.0019
F - 2021 Unit Depletion Value	(E x A)		\$4,490	\$5,677

CALCULATIONS (BASED ON DOG #S)

			2021-2022	2020-2021
G - 2021 Base Year Value of the Unit - C			\$26,886,003	\$26,891,680
H - less: 2021 Unit Depletion Value - F			\$4,490	\$5,677
I - 2022 Base Year Value of the Unit - C-F			\$26,881,513	\$26,886,003
J - 2021 RD 1601 Pro Rata Share of Unit	503,519/2,362,901 - B/A		21.309357%	26.164194%
K - 2022 RD 1601 Value - I*J			\$5,728,277	\$7,034,506
L - Benefit Factor - Given in Minutes			4.00%	4.00%
M - 2022 RD 1601 Taxable Unit Value (Mineral Rights) - K*L			\$229,131	\$281,380

ASSESSMENT FACTOR (Max Assessment Factor 47.6382) = X/W = 40.19540

Landowner	Acreage	Per Acre	Total Valuation	2021-22	
RD 1601	422.509	200	84,502	\$33,965.84	4.9%
Karlie & Noeme Silva	0.951	400	380	\$152.90	0.0%
Marjorie H. Sgarrella	1.480	400	592	\$237.96	0.0%
County of Sacramento	0.010	0	0	\$0.00	0.0%
RD 1601	121.400	200	24,280	\$9,759.44	1.4%
State of California	2244.497	200	448,899	\$180,436.91	25.8%
State of California	764.900	1200	917,880	\$368,945.62	52.7%
Fagundes Dairy	47.750	200	9,550	\$3,838.66	0.5%
Stkn Marina Properties LLC	20.000	1200	24,000	\$9,646.90	1.4%
Exxon Corporation ***	0.870	200	174	\$69.94	0.0%
Carter	10.520	200	2,104	\$845.71	0.1%
					0.0%
	3634.887				0.0%
California Resources Production (W)			229,131	\$92,100.12	13.2%
Total Assessment (X)			1,741,493	\$700,000.00	1

*** Bill Exxon Corp to State of CA \$700,000.00

Reclamation District No. 1601, Twitchell Island
 Revised Acreage Operation and Maintenance Assessment Roll
 5/17/2022

A		B		C		D		E			F			G			H			I		J	
Tract No.	Description Sacramento County Assessor Parcel No.	Acres	Habitat Restoration Acres	Revised Acres	Owner	Assessment Valuation per Acre	New Total Assessment Valuation (B x D)	Proposed New Rate per \$100 of Assessed Valuation	Proposed Total Assessment (E/100) x F	Prior Total Valuation (B x D)	Prior Rate per \$100 of Assessed Valuation	Prior Total Assessment (H/100) x I	Proposed New Assessment Factor (2021-22)	Prior Assessment Factor (2020-21)	Prior Rate per \$100 of Assessed Valuation	Prior Total Assessment (H/100) x I	Proposed New Assessment Factor (2021-22)	Prior Assessment Factor (2020-21)	Prior Rate per \$100 of Assessed Valuation	Prior Total Assessment (H/100) x I			
1	157-0130-026	422.509		422.509	RD No 1601	200	84,502	40.19540	\$33,965.84	84,502	39.02457	\$33,976.46	\$700.000	40.19540	39.02457	\$33,976.46	\$700.000	40.19540	39.02457	\$33,976.46			
2	157-0130-027	117.000		117.000	RD No 1601	200	23,400	40.19540	\$9,405.72	23,400	39.02457	\$9,131.75	\$700.000	40.19540	39.02457	\$9,131.75	\$700.000	40.19540	39.02457	\$9,131.75			
3	157-0130-011	0.951		0.951	Karlie & Noerne Silva	400	380	40.19540	\$152.90	380	39.02457	\$148.45	\$700.000	40.19540	39.02457	\$148.45	\$700.000	40.19540	39.02457	\$148.45			
4	157-0130-015	0.566		0.566	State of California	200	113	40.19540	\$45.50	113	39.02457	\$44.18	\$700.000	40.19540	39.02457	\$44.18	\$700.000	40.19540	39.02457	\$44.18			
5	157-0130-019	0.410		0.410	Marjorie H. Sgarrella	400	164	40.19540	\$65.92	164	39.02457	\$64.00	\$700.000	40.19540	39.02457	\$64.00	\$700.000	40.19540	39.02457	\$64.00			
6	157-0130-016	0.741		0.741	State of California	200	148	40.19540	\$59.57	148	39.02457	\$57.83	\$700.000	40.19540	39.02457	\$57.83	\$700.000	40.19540	39.02457	\$57.83			
7	157-0130-018	1.070		1.070	Marjorie H. Sgarrella	400	428	40.19540	\$172.04	428	39.02457	\$167.03	\$700.000	40.19540	39.02457	\$167.03	\$700.000	40.19540	39.02457	\$167.03			
8	157-0130-014	0.010		0.010	County of Sacramento	0	0	40.19540	\$0.00	0	39.02457	\$0.00	\$700.000	40.19540	39.02457	\$0.00	\$700.000	40.19540	39.02457	\$0.00			
9	157-0130-017	102.450		102.450	State of California	200	20,490	40.19540	\$8,236.04	20,490	39.02457	\$7,996.13	\$700.000	40.19540	39.02457	\$7,996.13	\$700.000	40.19540	39.02457	\$7,996.13			
10	157-0130-004	200.550		200.550	State of California	200	40,110	40.19540	\$16,122.37	40,110	39.02457	\$15,652.76	\$700.000	40.19540	39.02457	\$15,652.76	\$700.000	40.19540	39.02457	\$15,652.76			
11	157-0130-024	302.960		302.960	State of California	200	60,592	40.19540	\$24,355.20	60,592	39.02457	\$23,645.77	\$700.000	40.19540	39.02457	\$23,645.77	\$700.000	40.19540	39.02457	\$23,645.77			
12	157-0130-020	47.750		47.750	Fagundes Dairy	200	9,550	40.19540	\$3,838.66	9,550	39.02457	\$3,726.85	\$700.000	40.19540	39.02457	\$3,726.85	\$700.000	40.19540	39.02457	\$3,726.85			
13	157-0130-022	40.000		40.000	State of California	200	8,000	40.19540	\$3,215.63	8,000	39.02457	\$3,121.97	\$700.000	40.19540	39.02457	\$3,121.97	\$700.000	40.19540	39.02457	\$3,121.97			
14	157-0130-008	300.850		300.850	State of California	200	60,170	40.19540	\$24,185.57	60,170	39.02457	\$23,481.08	\$700.000	40.19540	39.02457	\$23,481.08	\$700.000	40.19540	39.02457	\$23,481.08			
15	157-0130-006	357.980		357.980	State of California	200	71,596	40.19540	\$28,778.30	71,596	39.02457	\$27,940.03	\$700.000	40.19540	39.02457	\$27,940.03	\$700.000	40.19540	39.02457	\$27,940.03			
16	157-0130-007	102.000		102.000	State of California	200	20,400	40.19540	\$8,199.86	20,400	39.02457	\$7,961.01	\$700.000	40.19540	39.02457	\$7,961.01	\$700.000	40.19540	39.02457	\$7,961.01			
17	157-0140-004	1.000		1.000	State of California	200	200	40.19540	\$80.39	200	39.02457	\$78.05	\$700.000	40.19540	39.02457	\$78.05	\$700.000	40.19540	39.02457	\$78.05			
18a	157-0140-020	578.470		369.070	State of California	200	73,814	40.19540	\$29,669.84	73,814	39.02457	\$28,805.60	\$700.000	40.19540	39.02457	\$28,805.60	\$700.000	40.19540	39.02457	\$28,805.60			
18b	157-0140-020			209.400	State of California	200	251,280	40.19540	\$101,003.07	251,280	39.02457	\$98,060.97	\$700.000	40.19540	39.02457	\$98,060.97	\$700.000	40.19540	39.02457	\$98,060.97			
19a	157-0140-011	181.500		140.800	State of California	200	8,140	40.19540	\$3,271.91	8,140	39.02457	\$3,176.60	\$700.000	40.19540	39.02457	\$3,176.60	\$700.000	40.19540	39.02457	\$3,176.60			
19b	157-0140-011	186.000		140.800	State of California	200	168,960	40.19540	\$67,914.15	168,960	39.02457	\$65,935.91	\$700.000	40.19540	39.02457	\$65,935.91	\$700.000	40.19540	39.02457	\$65,935.91			
20a	157-0140-009	186.000		64.900	State of California	200	12,980	40.19540	\$5,217.36	12,980	39.02457	\$5,065.39	\$700.000	40.19540	39.02457	\$5,065.39	\$700.000	40.19540	39.02457	\$5,065.39			
20b	157-0140-009			121.100	State of California	200	145,320	40.19540	\$58,411.96	145,320	39.02457	\$56,710.51	\$700.000	40.19540	39.02457	\$56,710.51	\$700.000	40.19540	39.02457	\$56,710.51			
21a	157-0140-010	181.500		70.200	State of California	200	14,040	40.19540	\$5,643.43	14,040	39.02457	\$5,479.05	\$700.000	40.19540	39.02457	\$5,479.05	\$700.000	40.19540	39.02457	\$5,479.05			
21b	157-0140-010			111.300	State of California	200	133,560	40.19540	\$53,684.98	133,560	39.02457	\$52,121.22	\$700.000	40.19540	39.02457	\$52,121.22	\$700.000	40.19540	39.02457	\$52,121.22			
22	157-0140-015	20.000		20.000	Sitk Marina Properties LLC	1200	24,000	40.19540	\$9,646.90	24,000	39.02457	\$9,365.90	\$700.000	40.19540	39.02457	\$9,365.90	\$700.000	40.19540	39.02457	\$9,365.90			
23	157-0130-003	0.870		0.870	State of California (1/2)	200	174	40.19540	\$69.94	174	39.02457	\$67.90	\$700.000	40.19540	39.02457	\$67.90	\$700.000	40.19540	39.02457	\$67.90			
24	157-0130-023	10.520		10.520	State of California (1/2)	200	174	40.19540	\$69.94	174	39.02457	\$67.90	\$700.000	40.19540	39.02457	\$67.90	\$700.000	40.19540	39.02457	\$67.90			
25	** 157-0130-023	0.360		0.360	Ricky & Linda Carter	200	2,104	40.19540	\$845.71	2,104	39.02457	\$821.08	\$700.000	40.19540	39.02457	\$821.08	\$700.000	40.19540	39.02457	\$821.08			
26	157-0130-025	4.040		4.040	RD No 1601	200	72	40.19540	\$28.94	72	39.02457	\$28.10	\$700.000	40.19540	39.02457	\$28.10	\$700.000	40.19540	39.02457	\$28.10			
27a	157-0140-021	471.960		289.660	State of California	200	808	40.19540	\$324.78	808	39.02457	\$316.32	\$700.000	40.19540	39.02457	\$316.32	\$700.000	40.19540	39.02457	\$316.32			
27b	157-0140-021			182.300	State of California	200	57,932	40.19540	\$23,286.00	57,932	39.02457	\$22,607.71	\$700.000	40.19540	39.02457	\$22,607.71	\$700.000	40.19540	39.02457	\$22,607.71			
						1200	218,760	40.19540	\$87,931.46	218,760	39.02457	\$85,370.15	\$700.000	40.19540	39.02457	\$85,370.15	\$700.000	40.19540	39.02457	\$85,370.15			
		3,634.887	764.900	3,634.887																			
					California Resources Production LESS RD1601		1,512,362		\$92,100.12	1,512,362		\$109,807.34	\$700.000	40.19540	39.02457	\$109,807.34	\$700.000	40.19540	39.02457	\$109,807.34			
							229,131		(\$43,725.28)	229,131		(\$42,451.63)	\$700.000	40.19540	39.02457	(\$42,451.63)	\$700.000	40.19540	39.02457	(\$42,451.63)			
							1,741,493		\$656,274.72	1,741,493		\$657,548.37	\$700.000	40.19540	39.02457	\$657,548.37	\$700.000	40.19540	39.02457	\$657,548.37			

** .36 purchased from Carter for exclusive levee easement
 *** Exxon Corp billed to State of CA

Exhibit B

Reclamation District No. 1601

17-May-22

Assessment by Landowner - Fiscal Year 2021-2022

"AS IF" \$630,000 (90% of MAX ASSESSMENT)

DEPLETION VALUE CALCULATIONS

			2021-2022	2020-2021
A - 2021 RV Total Prod	(on line opi.consrv.ca.gov)	(MCF)	2,362,901	2,987,839
B - 2021 Twitchell Prod	(add all 1601 prod wells)	(MCF)	503,519	781,744
C - Net Present Value	(2020 base yr value NPV)		\$26,886,003	\$26,891,680
D - Total Reserves		(MCF)	13,950,000,000	13,950,000,000
E - Base Year Value per MCF	(C/D)	(\$/MCF)	\$0.0019	\$0.0019
F - 2021 Unit Depletion Value	(E x A)		\$4,490	\$5,677

CALCULATIONS (BASED ON DOG #S)

			2021-2022	2020-2021
G - 2021 Base Year Value of the Unit - C			\$26,886,003	\$26,891,680
H - less: 2021 Unit Depletion Value - F			\$4,490	\$5,677
I - 2022 Base Year Value of the Unit - C-F			\$26,881,513	\$26,886,003
J - 2021 RD 1601 Pro Rata Share of Unit 503,519/2,362,901 - B/A			21.309357%	26.164194%
K - 2022 RD 1601 Value - I*J			\$5,728,277	\$7,034,506
L - Benefit Factor - Given in Minutes			4.00%	4.00%
M - 2022 RD 1601 Taxable Unit Value (Mineral Rights) - K*L			\$229,131	\$281,380

ASSESSMENT FACTOR (Max Assessment Factor 47.6382) = X/W = 36.17586

Landowner	Acreage	Per Acre	Total Valuation	2021-22	
RD 1601	422.509	200	84,502	\$30,569.25	4.9%
Karlie & Noeme Silva	0.951	400	380	\$137.61	0.0%
Marjorie H. Sgarrella	1.480	400	592	\$214.16	0.0%
County of Sacramento	0.010	0	0	\$0.00	0.0%
RD 1601	121.400	200	24,280	\$8,783.50	1.4%
State of California	2244.497	200	448,899	\$162,393.22	25.8%
State of California	764.900	1200	917,880	\$332,051.06	52.7%
Fagundes Dairy	47.750	200	9,550	\$3,454.79	0.5%
Stkn Marina Properties LLC	20.000	1200	24,000	\$8,682.21	1.4%
Exxon Corporation ***	0.870	200	174	\$62.95	0.0%
Carter	10.520	200	2,104	\$761.14	0.1%
					0.0%
	3634.887				0.0%
California Resources Production (W)			229,131	\$82,890.11	13.2%
Total Assessment (X)			1,741,493	\$630,000.00	1

*** Bill Exxon Corp to State of CA \$630,000.00

Reclamation District No. 1601, Twitchell Island
 Revised Acreage Operation and Maintenance Assessment Roll
 5/17/2022

		(Max Assessment Factor 47.6382)										Proposed New Assessment Factor (MAX)		Prior Assessment Factor (2020-21)	
		PROPOSED NEW ASSESSMENT (2021-22)										\$630,000 (90% of MAX ASSESSMENT)			
Tract No.	Description Sacramento County Assessor Parcel No.	Acres	Habitat Restoration Acres	B Revised Acres	C Owner	D Assessment Valuation per Acre	E New Total Assessment Valuation (B x D)	F Proposed New Rate per \$100 of Assessed Valuation	G Proposed Total Assessment (E/100) x F	H Prior Total Valuation (B x D)	I Prior Rate per \$100 of Assessed Valuation	J Prior Total Assessment (H/100) x I	PRIOR ASSESSMENT (2020-21)		
1	157-0130-026	472.509		422.509	RD No 1601	200	84,502	36.17586	\$30,569.25	84,502	35.12212	\$29,678.82	36.17586	35.12212	
2	157-0130-027	117,000		117,000	RD No 1601	200	23,400	36.17586	\$8,465.15	23,400	35.12212	\$8,218.57	\$8,218.57	\$8,218.57	
3	157-0130-011	0.951		0.951	Karlie & Noeme Silva State of California	400	380	36.17586	\$137.61	380	35.12212	\$133.60	\$133.60	\$133.60	
4	157-0130-015	0.566		0.566	State of California	200	113	36.17586	\$40.95	113	35.12212	\$39.76	\$39.76	\$39.76	
5	157-0130-019	0.410		0.410	Manorie H. Sgarrella State of California	400	164	36.17586	\$59.33	164	35.12212	\$57.60	\$57.60	\$57.60	
6	157-0130-016	0.741		0.741	State of California	200	148	36.17586	\$53.61	148	35.12212	\$52.05	\$52.05	\$52.05	
7	157-0130-018	1.070		1.070	Manorie H. Sgarrella State of California	400	428	36.17586	\$154.83	428	35.12212	\$150.32	\$150.32	\$150.32	
8	157-0130-014	0.010		0.010	County of Sacramento	0	0	36.17586	\$0.00	0	35.12212	\$0.00	\$0.00	\$0.00	
9	157-0130-017	102.450		102.450	State of California	200	20,490	36.17586	\$7,412.43	20,490	35.12212	\$7,196.52	\$7,196.52	\$7,196.52	
10	157-0130-004	200.550		200.550	State of California	200	40,110	36.17586	\$14,510.14	40,110	35.12212	\$14,087.48	\$14,087.48	\$14,087.48	
11	157-0130-024	302.960		302.960	State of California	200	60,592	36.17586	\$21,919.68	60,592	35.12212	\$21,281.19	\$21,281.19	\$21,281.19	
12	157-0130-020	47.750		47.750	Fagundes Dairy State of California	200	9,550	36.17586	\$3,454.79	9,550	35.12212	\$3,354.16	\$3,354.16	\$3,354.16	
13	157-0130-022	40.000		40.000	State of California	200	8,000	36.17586	\$2,894.07	8,000	35.12212	\$2,809.77	\$2,809.77	\$2,809.77	
14	157-0130-008	300.850		300.850	State of California	200	60,170	36.17586	\$21,767.01	60,170	35.12212	\$21,132.98	\$21,132.98	\$21,132.98	
15	157-0130-006	357.980		357.980	State of California	200	71,596	36.17586	\$25,900.47	71,596	35.12212	\$25,146.03	\$25,146.03	\$25,146.03	
16	157-0130-007	102.000		102.000	State of California	200	20,400	36.17586	\$7,379.88	20,400	35.12212	\$7,164.91	\$7,164.91	\$7,164.91	
17	157-0140-004	1,000		1,000	State of California	200	200	36.17586	\$72.35	200	35.12212	\$70.24	\$70.24	\$70.24	
18a	157-0140-020	578.470		369.070	State of California	200	73,814	36.17586	\$26,702.84	73,814	35.12212	\$25,925.06	\$25,925.06	\$25,925.06	
18b	157-0140-020			209.400	State of California	1200	251,280	36.17586	\$90,902.78	251,280	35.12212	\$88,254.81	\$88,254.81	\$88,254.81	
19a	157-0140-011	181.500		40.700	State of California	200	8,140	36.17586	\$2,944.72	8,140	35.12212	\$2,858.94	\$2,858.94	\$2,858.94	
19b	157-0140-011			140.800	State of California	1200	168,960	36.17586	\$61,122.73	168,960	35.12212	\$59,342.33	\$59,342.33	\$59,342.33	
20a	157-0140-009	186.000		64.900	State of California	200	12,980	36.17586	\$4,695.63	12,980	35.12212	\$4,558.85	\$4,558.85	\$4,558.85	
20b	157-0140-009			121.100	State of California	1200	145,320	36.17586	\$52,570.76	145,320	35.12212	\$51,039.48	\$51,039.48	\$51,039.48	
21a	157-0140-010	181.500		70.200	State of California	200	14,040	36.17586	\$5,079.09	14,040	35.12212	\$4,931.15	\$4,931.15	\$4,931.15	
21b	157-0140-010			111.300	State of California	1200	133,560	36.17586	\$48,316.48	133,560	35.12212	\$46,909.10	\$46,909.10	\$46,909.10	
22	157-0140-015	20.000		20.000	Stkn Marina Properties LLC State of California	1200	24,000	36.17586	\$8,682.21	24,000	35.12212	\$8,429.31	\$8,429.31	\$8,429.31	
23	157-0130-003	0.870		0.870	State of California (1/2)	200	174	36.17586	\$62.95	174	35.12212	\$61.11	\$61.11	\$61.11	
24	157-0130-023	10.520		0.870	State of California (1/2)	200	174	36.17586	\$62.95	174	35.12212	\$61.11	\$61.11	\$61.11	
25	** 157-0130-023	0.360		10.520	Ricky & Linda Carter RD No 1601	200	2,104	36.17586	\$761.14	2,104	35.12212	\$738.97	\$738.97	\$738.97	
26	157-0130-025	4.040		0.360	RD No 1601	200	72	36.17586	\$26.05	72	35.12212	\$25.29	\$25.29	\$25.29	
27a	157-0140-021	471.960		289.660	State of California	200	57,932	36.17586	\$20,957.40	57,932	35.12212	\$20,346.95	\$20,346.95	\$20,346.95	
27b	157-0140-021			182.300	State of California	1200	218,760	36.17586	\$79,138.31	218,760	35.12212	\$76,833.15	\$76,833.15	\$76,833.15	
		3,634.887		3,634.887											
				764.900	California Resources Production LESS RD1601		1,512,362	36.17586	\$82,890.11 (\$39,352.75)	1,512,362	35.12212	\$88,826.62 (\$38,206.47)	\$88,826.62 (\$38,206.47)	\$88,826.62 (\$38,206.47)	
							1,741,493		\$590,647.25	1,741,493		\$591,793.53	\$591,793.53	\$591,793.53	

** .36 purchased from Carter for exclusive levee easement
 *** Exxon Corp billed to State of CA

Exhibit C

Reclamation District No. 1601

17-May-22

**Assessment by Landowner - Fiscal Year 2021-2022
\$560,000 (80% of MAX ASSESSMENT)**

DEPLETION VALUE CALCULATIONS

			2021-2022	2020-2021
A - 2021 RV Total Prod	(on line opi.consrv.ca.gov)	(MCF)	2,362,901	2,987,839
B - 2021 Twitchell Prod	(add all 1601 prod wells)	(MCF)	503,519	781,744
C - Net Present Value	(2020 base yr value NPV)		\$26,886,003	\$26,891,680
D - Total Reserves		(MCF)	13,950,000,000	13,950,000,000
E - Base Year Value per MCF	(C/D)	(\$/MCF)	\$0.0019	\$0.0019
F - 2021 Unit Depletion Value	(E x A)		\$4,490	\$5,677

CALCULATIONS (BASED ON DOG #S)

			2021-2022	2020-2021
G - 2021 Base Year Value of the Unit - C			\$26,886,003	\$26,891,680
H - less: 2021 Unit Depletion Value - F			\$4,490	\$5,677
I - 2022 Base Year Value of the Unit - C-F			\$26,881,513	\$26,886,003
J - 2021 RD 1601 Pro Rata Share of Unit 503,519/2,362,901 - B/A			21.309357%	26.164194%
K - 2022 RD 1601 Value - I*J			\$5,728,277	\$7,034,506
L - Benefit Factor - Given in Minutes			4.00%	4.00%
M - 2022 RD 1601 Taxable Unit Value (Mineral Rights) - K*L			\$229,131	\$281,380

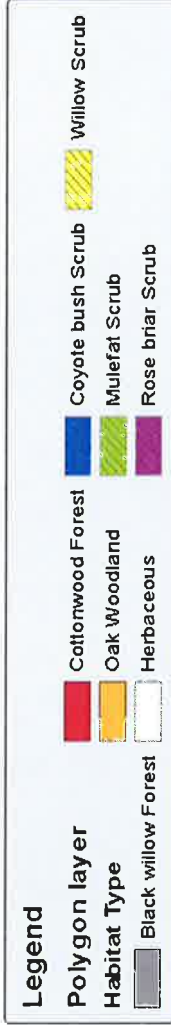
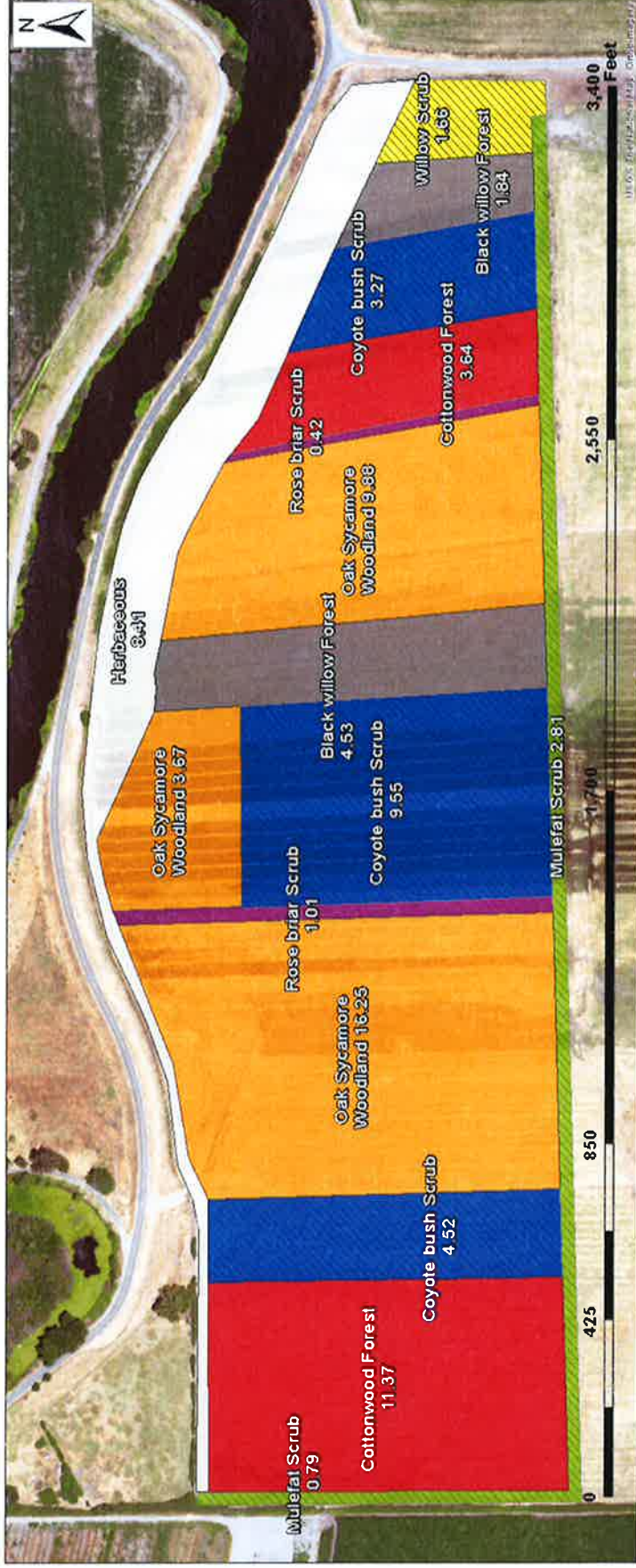
ASSESSMENT FACTOR (Max Assessment Factor 47.6382) = X/W = 32.15632

Landowner	Acreage	Per Acre	Total Valuation	2021-22	
RD 1601	422.509	200	84,502	\$27,172.67	4.9%
Karlie & Noeme Silva	0.951	400	380	\$122.32	0.0%
Marjorie H. Sgarrella	1.480	400	592	\$190.37	0.0%
County of Sacramento	0.010	0	0	\$0.00	0.0%
RD 1601	121.400	200	24,280	\$7,807.55	1.4%
State of California	2244.497	200	448,899	\$144,349.53	25.8%
State of California	764.900	1200	917,880	\$295,156.49	52.7%
Fagundes Dairy	47.750	200	9,550	\$3,070.93	0.5%
Stkn Marina Properties LLC	20.000	1200	24,000	\$7,717.52	1.4%
Exxon Corporation ***	0.870	200	174	\$55.95	0.0%
Carter	10.520	200	2,104	\$676.57	0.1%
					0.0%
	3634.887				0.0%
California Resources Production (W)			229,131	\$73,680.10	13.2%
Total Assessment (X)			1,741,493	\$560,000.00	1

*** Bill Exxon Corp to State of CA \$560,000.00

Exhibit D

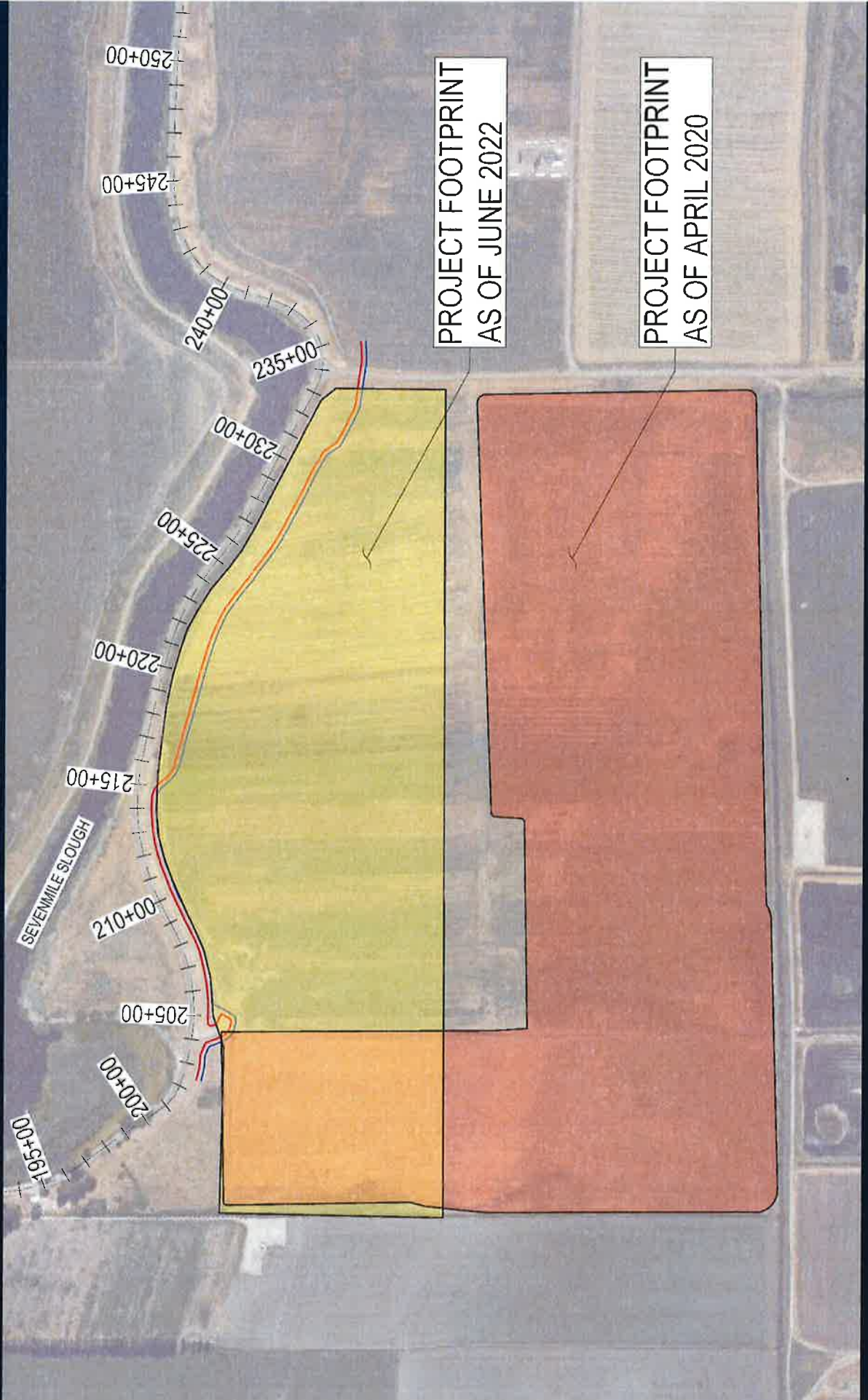
TIMES planting plan Habitat Type Map



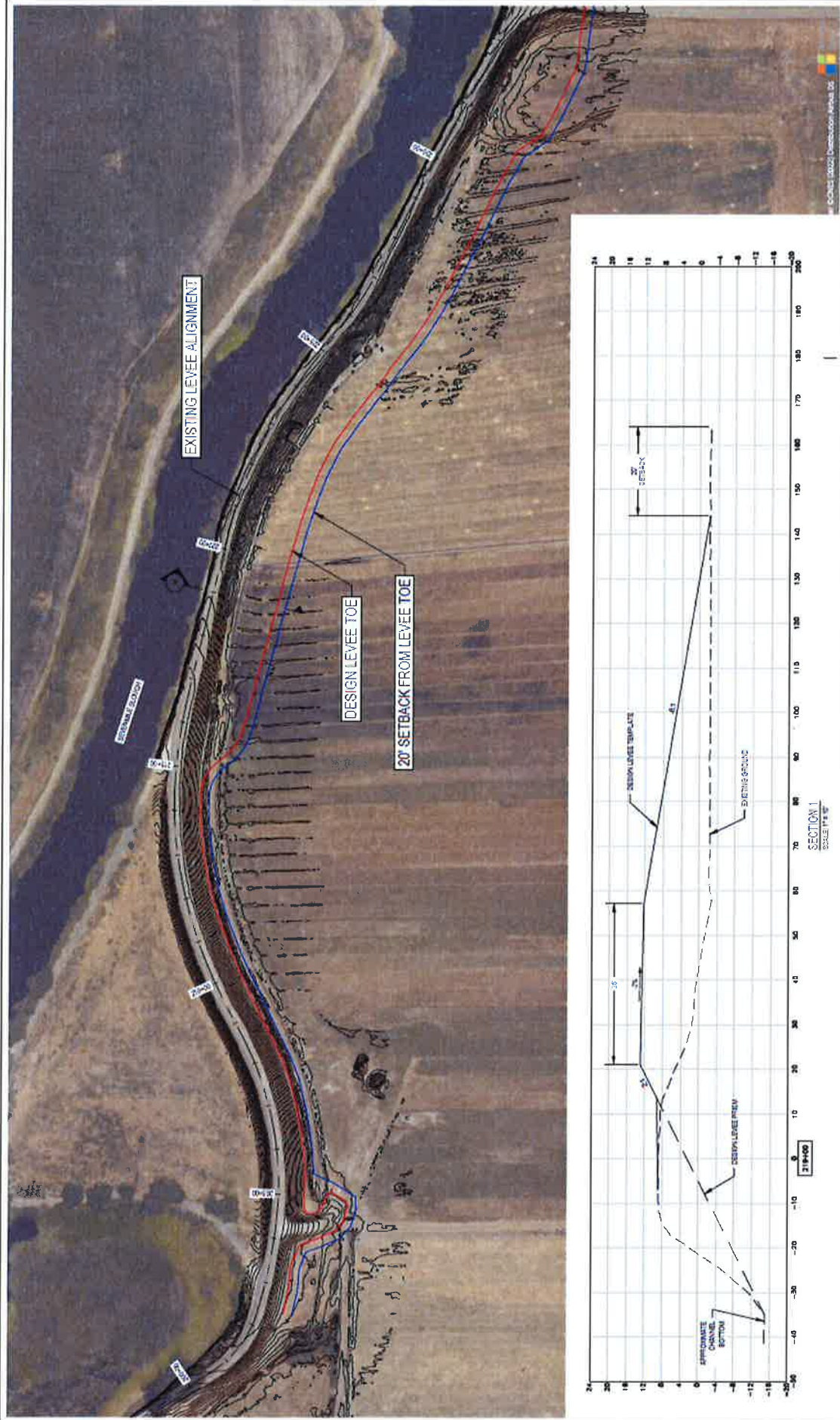
Solano RCD 12/04/2020

- Herbaceous area's (native grasses) acres depends on levee footprint

DWR Project Footprint Comparison



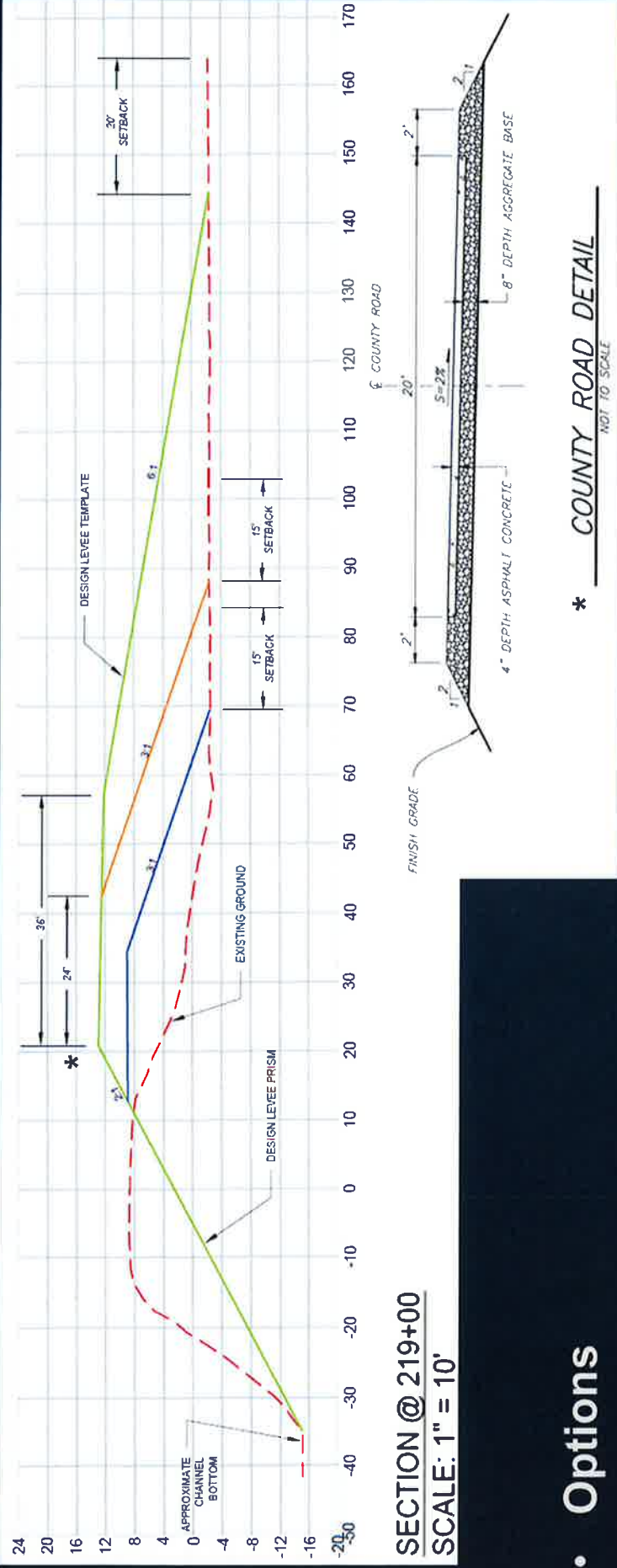
RD 1601 Levee Template (4/14/2022)



 KJELDSEN SINNOCK NEUDECK <small>INCORPORATED</small> 7115 Serrano Avenue San Diego, CA 92121 (619) 444-2000 www.kns.com	RECLAMATION DISTRICT NO. 1501 TWITCHELL ISLAND SEVEN MILE SLOUGH LEVEE DESIGN ADJACENT TO TIMES PROJECT	DRAWING SCALE 1" = 100' GRAPHIC SCALE 	SHEET NO. 1
	PROJECT NO. 1501-001	PAGE NO. 1	

K&S CONSULTING

DWR Levee Considerations (6/16/2022)

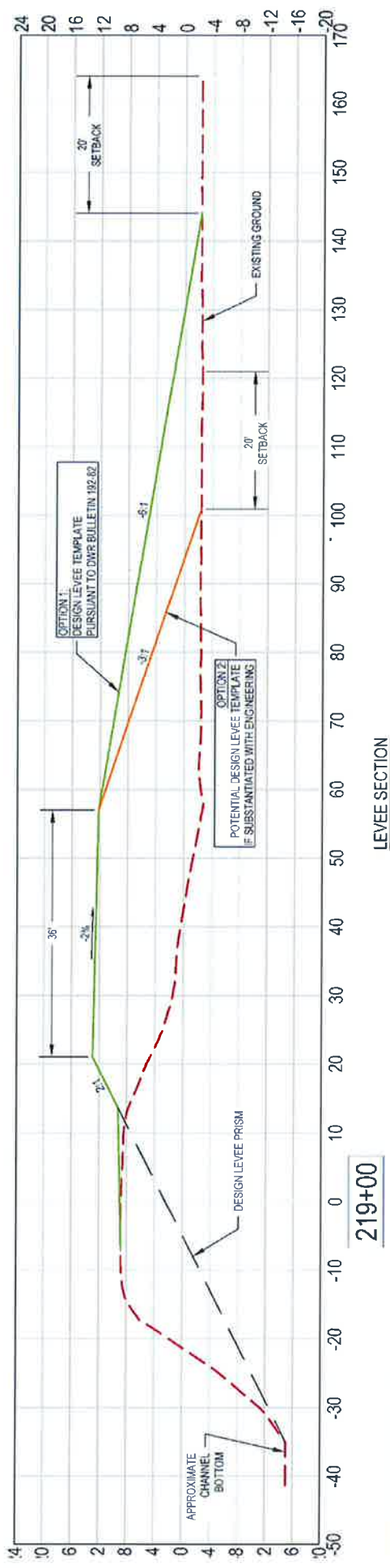
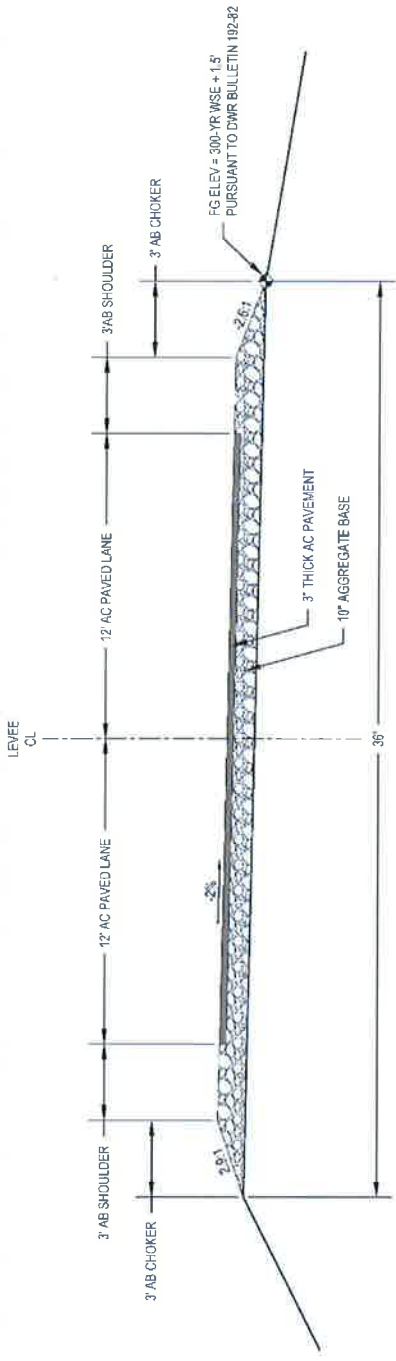


Options

- 1) KSN design (green) ~6.5 acres
- 2) 24' crest with 3:1 landside slope, and 15' setback (orange) ~ 3.9 acres
- 3) Levee height at existing with 24' crest, 3:1 landside slope, and 15' setback (blue) ~ 3.1 acres

* Acres = total levee footprint and assume that the levee is 1,900 feet long

RD 1601 Levee Considerations (6/21/2022)



Options:

- 1) DWR Bulletin 192-82 Levee Template with 6:1 landside slope (**green**)
- 2) Potential Levee Template with 3:1 landside slope (**orange**)
NEEDS TO BE SUBSTANTIATED WITH ENGINEERING

Exhibit E

DISASTER SERVICE WORKER VOLUNTEER REGISTRATION

LOCAL AND STATE INFORMATION

Loyalty Oath under Code of Civil Procedure §2015.5 & Title 19, Div.2, Chap.2, Sub-Chap.3, §2573.1

TYPE OR PRINT IN INK:

SHADED AREAS REQUIRED BY PROGRAM REGULATIONS

ATTACH
PHOTOGRAPH
HERE

This block completed ONLY by Accredited Disaster Council, designated government agency or jurisdiction.

CLASSIFICATION: _____ **SPECIALTY:** _____

REGISTERING AGENCY OR JURISDICTION: _____

SIGNATURE OF AUTHORIZED PERSON: _____ **TITLE:** _____

REGISTRATION DATE: _____ **RENEWAL DATES:** _____

EXPIRATION DATE:* _____ DSW CARD ISSUED? NO? YES? # _____

PROCESSED BY: _____ DATE: _____ TO CENTRAL FILES: _____

NAME:	LAST	FIRST	MI	SSN:	
ADDRESS:	CITY:		STATE	ZIP:	
COUNTY:	HOME PHONE:		WORK PHONE:		
CELL:	E-MAIL:		DATE OF BIRTH: (optional)		
DRIVER LICENSE NUMBER: (if applicable)	DRIVER LICENSE CLASSIFICATION: A? B? C?		LICENSE EXPIRATION DATE:		
OTHER DRIVING PRIVILEGES:		EMERGENCY PHONE:			
IN CASE OF EMERGENCY, CONTACT:					
PHYSICAL IDENTIFICATION:	HAIR:	EYES:	HEIGHT:	WEIGHT: (optional)	BLOOD TYPE: (optional)
COMMENTS:					

PARENT/LEGAL GUARDIAN CONSENT FOR MINOR

As the parent or legal guardian of _____, a minor, I hereby give my full consent and approval for the minor to participate as a DSW volunteer. I understand there may be risks of serious bodily injury inherent in DSW volunteer activities, as well as in traveling and other related activities incidental to his/her participation, and I hereby assume these risks on behalf of the minor.

SIGNATURE OF PARENT/LEGAL GUARDIAN

DATE

Based On Government Code (GC) §3108-3109:

Every person who, while taking and subscribing to the oath or affirmation required by this chapter, states as true any material matter which the person knows to be false, is guilty of perjury, and is punishable by imprisonment in the state prison for two, three, or four years. Every person having taken and subscribed to the oath or affirmation required by this chapter, who, while in the employ of, or service with, the state or any county, city, city and county, state agency, public district, or disaster council or emergency organization advocates or becomes a member of any party or organization, political or otherwise, that advocates the overthrow of the government of the United States by force or violence or other unlawful means, is guilty of a felony, and is punishable by imprisonment in the state prison.

LOYALTY OATH OR AFFIRMATION (GC §3102) **If Self-Certification approved by ADC, official's signature and title not required**

I _____, do solemnly swear (or affirm) that I will support and defend the
PRINT NAME

Constitution of the United States and the Constitution of the State of California against all enemies, foreign and domestic; that I will bear true faith and allegiance to the Constitution of the United States and the Constitution of the State of California; that I take this obligation freely, without any mental reservations or purpose of evasion; that I will well and faithfully discharge the duties upon which I am about to enter. I certify under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct.

Executed on _____ in _____, California. _____
DATE CITY COUNTY SIGNATURE OF VOLUNTEER

DATE

SIGNATURE OF OFFICIAL AUTHORIZED TO ADMINISTER LOYALTY OATH

TITLE

*Registration for the active DSW Volunteer is effective for the period the person remains a member with that organization; for a volunteer registering for an intermittent or a single event, the expiration date is at the discretion of the Accredited Disaster Council but not to exceed one year. (See GC §3102).

Exhibit F



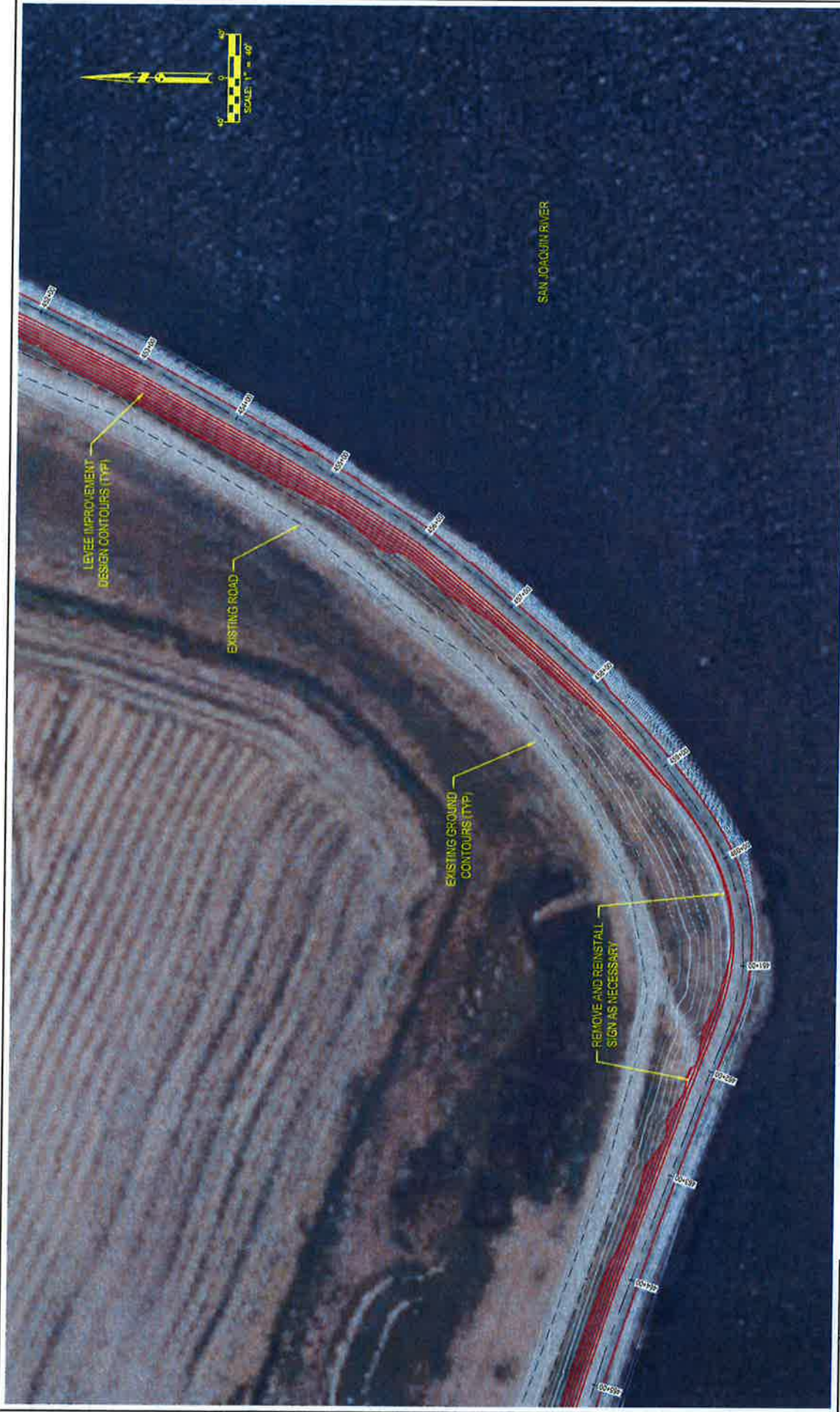
<p>Know what's below. Call before you dig.</p>		<p>DATE: JUNE 2022</p> <p>SHEET IDENTIFICATION: CS-101</p> <p>SHEET 03 OF 26</p> <p>ASV PROJECT FILE NO: 17D-1640</p>	
<p>RECLAMATION DISTRICT 1601</p> <p>TWITCHELL ISLAND</p> <p>SACRAMENTO COUNTY, CA</p>		<p>2022 LEVEE IMPROVEMENT PROJECT</p> <p>BASE MAP</p>	
<p>711 N. Pershing Avenue Sacramento, CA 95820 209 946-0208</p> <p>KJELSDEN SINNOCK NEUDECK INC.</p> <p>www.kjnsi.com</p>		<p>DRAWING SCALE: 1" = 300'</p> <p>GRAPHIC DRAWING SCALE: 0 5' 1'</p>	
DESIGN BY: DAN	CHECK BY: DAN	DATE: APRIL	NO. DESCRIPTION
PROJECT: LEVEE IMPROVEMENT	VERTICAL DATUM: NAVD83		



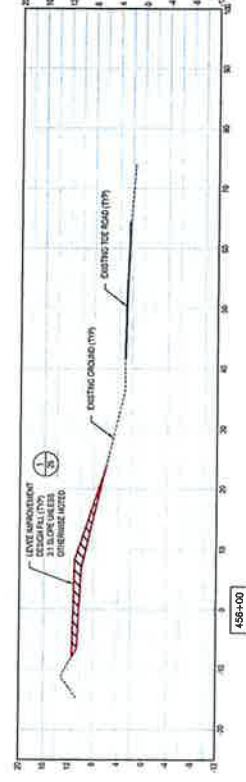
	SUBMITTAL % Date _____ _____ _____ _____ _____	NORTH ORIENTATION 		ID DESCRIPTION DATE APPR. _____ _____ _____	DESIGNER DAY DRAWN BY DAY CHECK BY DAY PAPER TITLE DATE PROJECT ZONE 2 VERTICAL DATUM NAVD83	DRAWING SCALE 1" = 40' GRAPHIC UNITS AND SCALE 0 1/4 1/2 1'	 711 N. Packard Avenue Modesto, CA 95203 209-544-0288 1550 Harbor Blvd., Suite 212 West Sacramento, CA 95661 916-465-6960 www.kjnnd.com	RECLAMATION DISTRICT 1601 FIDELITY ISLAND SACRAMENTO COUNTY, CA 2022 LEVEE IMPROVEMENT PROJECT FOCUSED PLAN VIEW STA 459+00 TO 530+00 PLAN VIEW	DATE: JUNE 2022 SHEET IDENTIFICATION CS-103 SHEET NO. OF 1 (SEE PROJECT FILE NO. 1110-1040)



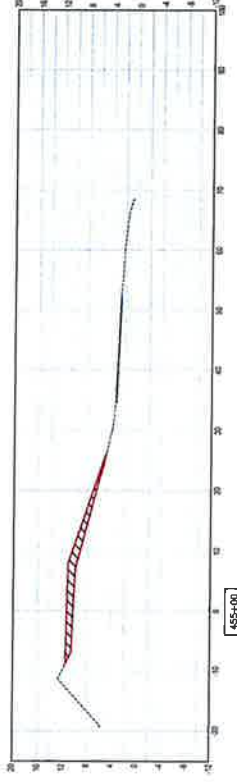
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	PROJECT NO. 1110-1040											



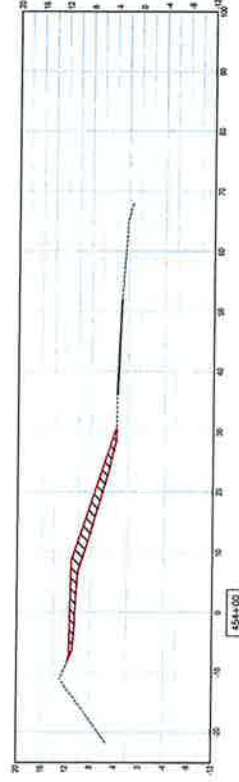
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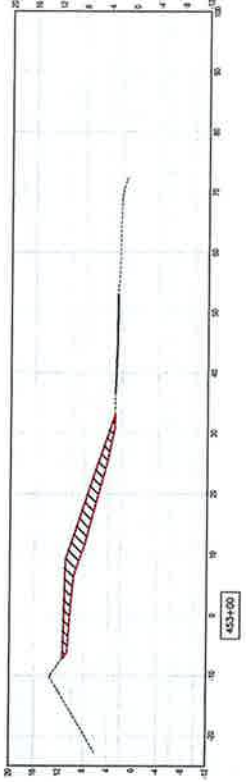
458+00



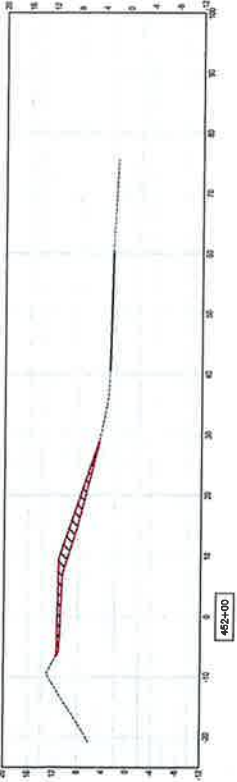
459+00



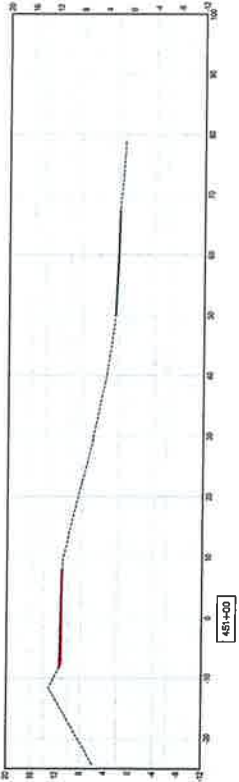
459+400



453+00



462+00



461+00

SUBMITTAL	
%	Date



NORTH ORIENTATION

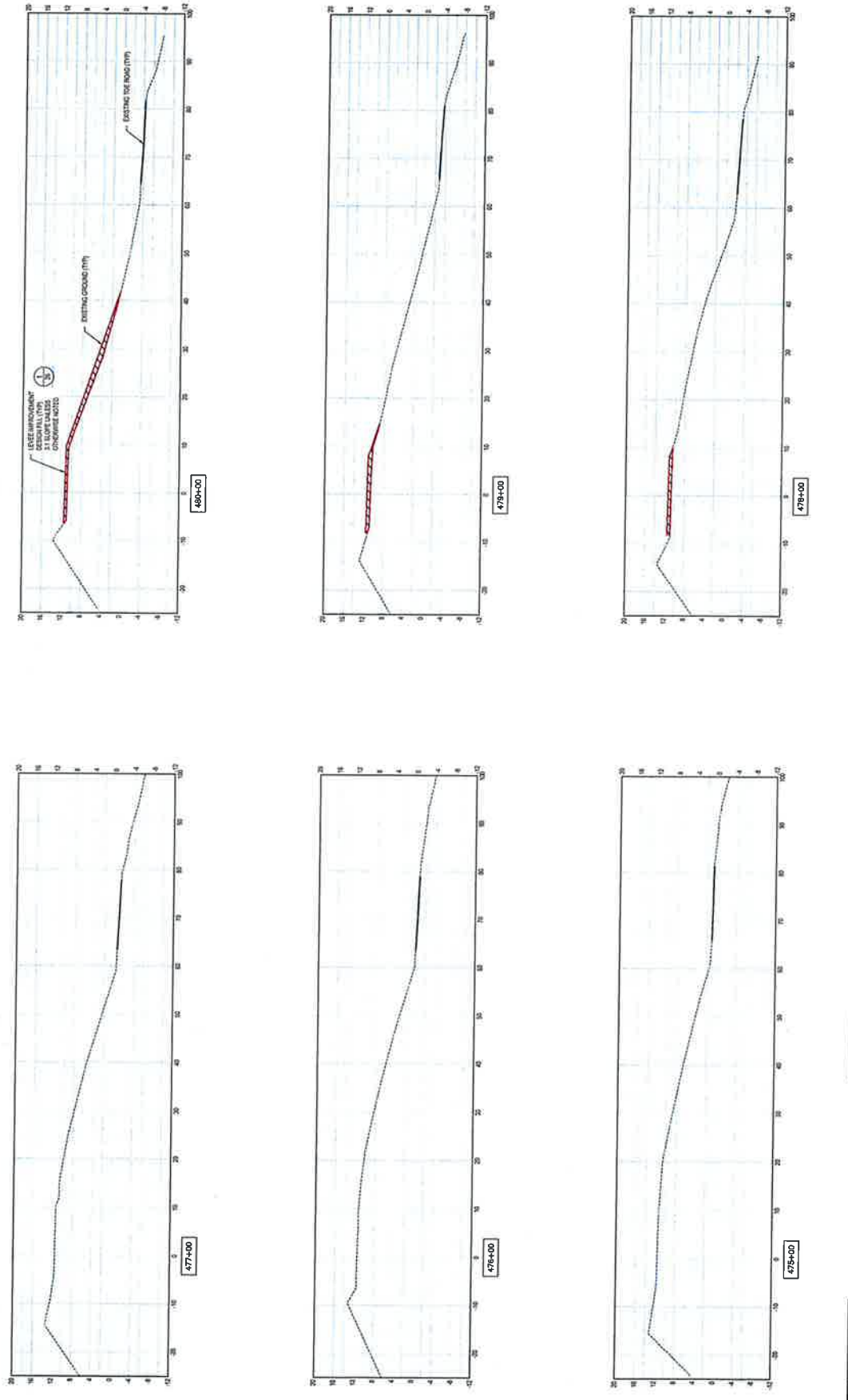
DESIGN BY	DATE	APPR.	DATE	DESCRIPTION

K&S
K-JUELSEN SINLIDEC
 CIVIL ENGINEERS
 711 N. Peckham Avenue
 Stockton, CA 95210
 209-944-0208
 1500 Harbor Blvd., Suite 212
 West Sacramento, CA 95691
 916-403-3800
 www.kjsinc.com

RECLAMATION DISTRICT 1601
 TWITCHELL ISLAND
 SACRAMENTO COUNTY, CA
2022 LEVEE IMPROVEMENT PROJECT
 CROSS SECTIONS
 STA 45+00 TO 459+00

DATE: JUNE 2022
 SHEET NO.: 11
C-301
 SHEET 13 OF 26
 ADVISOR: J. SMITH, P.E.
 1105-1040

DRAWING SCALE
 1" = 10'
 ORIGINAL DRAWING SCALE
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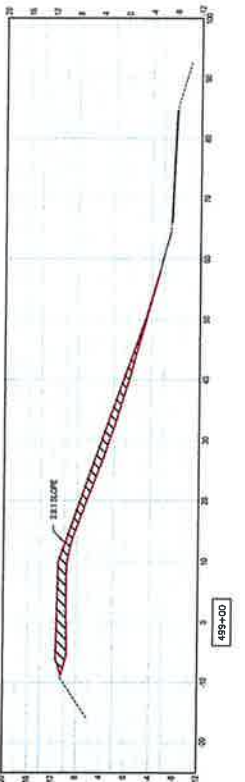
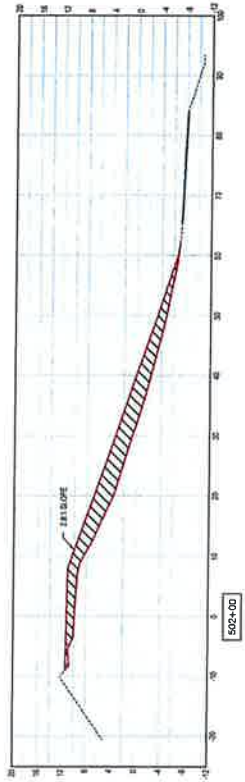
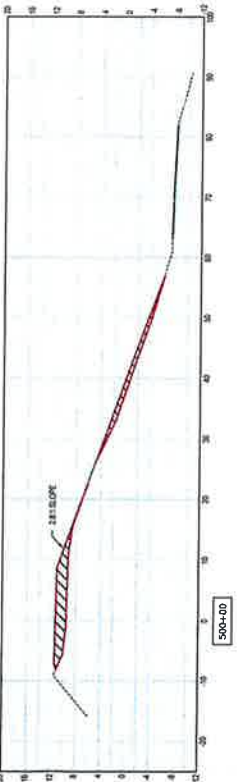
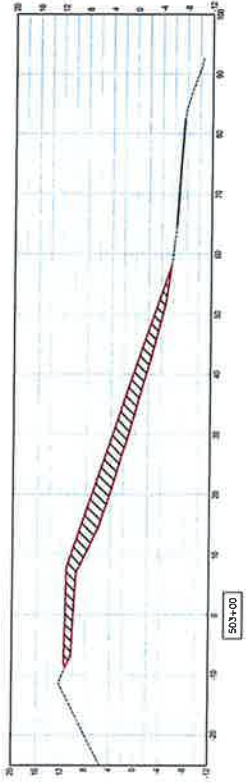
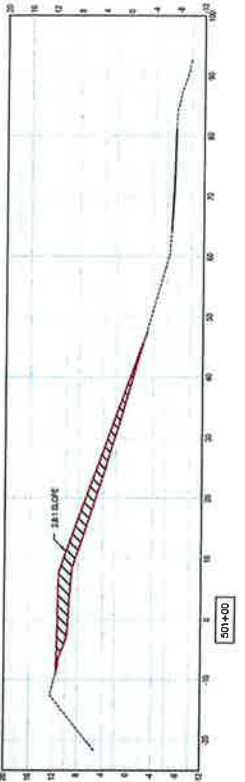
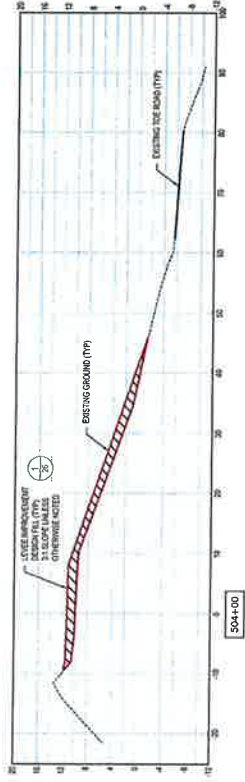
NO.	DESCRIPTION	DATE	APPR.
1		6/17/2022	

DESIGNED BY	DAV	DATE	APPR.
DRAWN BY	DAV		
CHECKED BY	JUN		
PROJECT	2022 LEVEE IMPROVEMENT PROJECT		
CROSS SECTION	477+00 TO 479+00		
VERTICAL DATUM	NAVD88		

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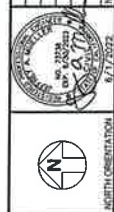
RECLAMATION DISTRICT 1601
 TWITCHELL ISLAND
 SACRAMENTO COUNTY, CA
 2022 LEVEE IMPROVEMENT PROJECT
 CROSS SECTIONS
 STA 475+00 TO 480+00

DATE: JUNE 2022
 SHEET IDENTIFICATION: C-305
 SHEET 17 OF 26
 NSN PROJECT FILE NO: 1110-1040



	SUBMITTAL % Date		NO. DESCRIPTION DATE APPR.	DESIGN BY DAY DRAWN BY DAY CHECK BY JAN HORIZONTAL DATUM CASSI, ZONE 2 VERTICAL DATUM NAVD83	DRAWING SCALE 1" = 10' ORIGINAL DRAWING SCALE 0 1/2" = 1' LLLLLLLLL		KJELDSEN SINNOCK NEUDECK CIVIL ENGINEERS & LAND SURVEYORS www.ksninc.com	711 K. Parkside Avenue Davis, CA 95618 209-941-0280 1550 Weber Blvd., Suite 212 West Sacramento, CA 95691 715-407-5900	RECLAMATION DISTRICT 1601 TWITCHELL ISLAND SACRAMENTO COUNTY, CA	DATE JUNE 2022 SHEET IDENTIFICATION C-309 SHEET 21 OF 26 NSM PROJECT FILE NO. 514-499-001304400
	2022 LEVEL IMPROVEMENT PROJECT CROSS SECTIONS STA 499+00 TO 504+00									

SUBMITTAL	
%	DATE



NORTH ORIENTATION

NO.	DESCRIPTION	DATE	APPR.

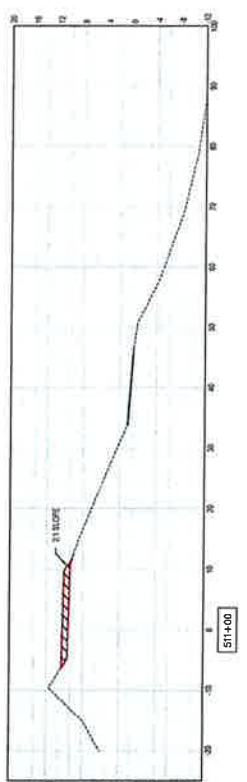
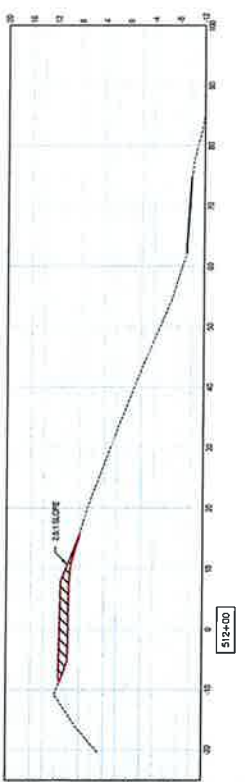
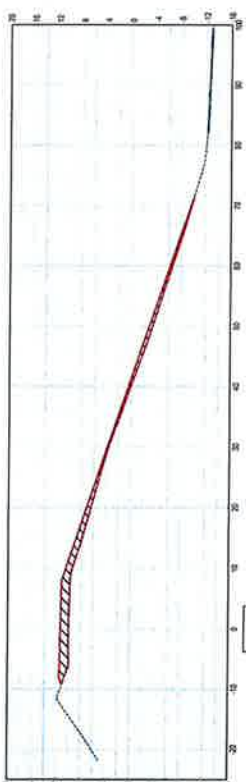
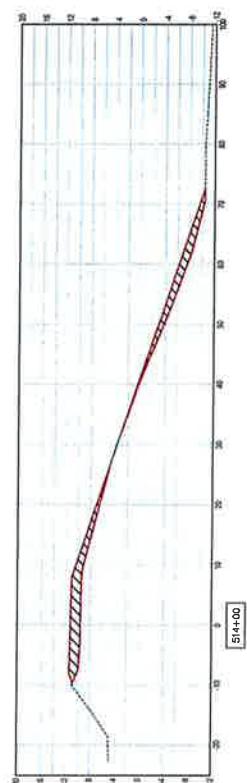
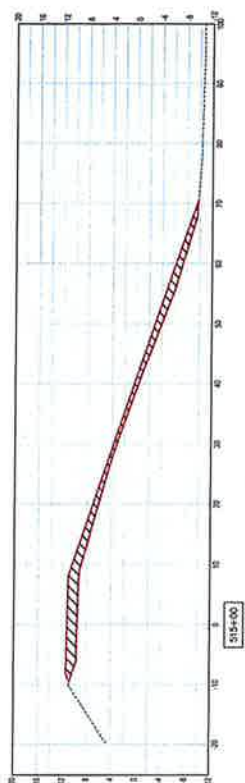
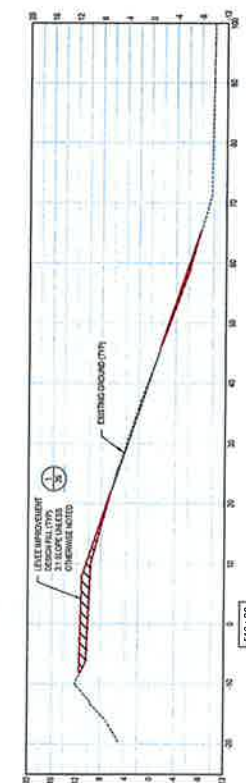
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 DRAWN BY: DAV
 CHECK BY: JRM
 PROJECT: 2022 LEVEE IMPROVEMENT PROJECT
 PROJECT NO.: 1110-1040
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 VERTICAL DATUM: NAVD83

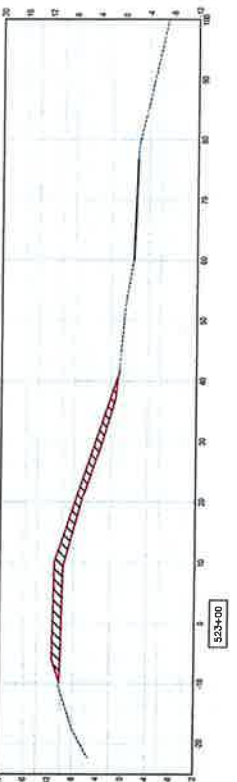
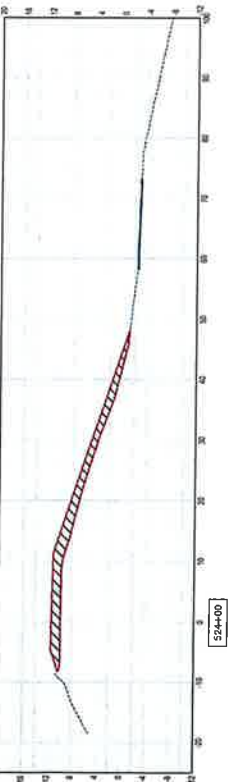
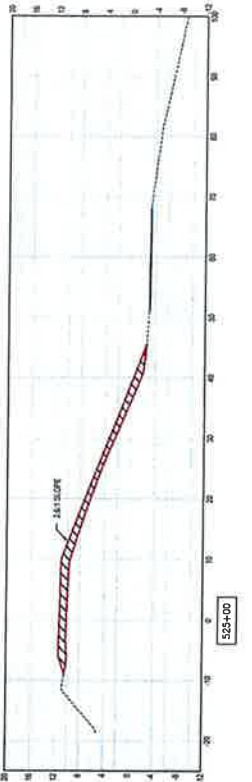
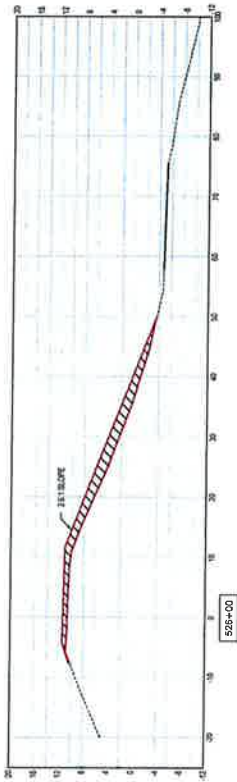
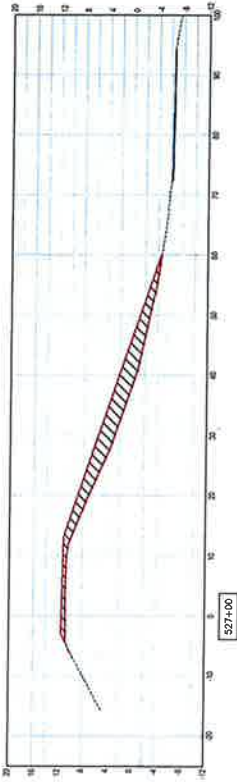
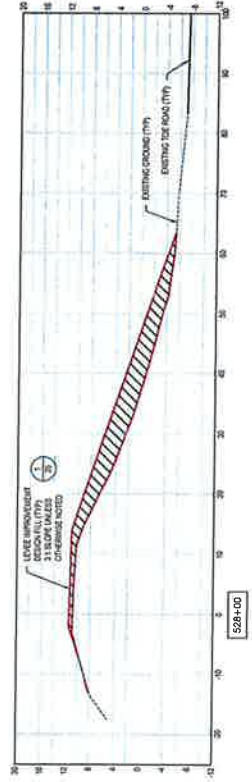
DRAWING SCALE: 1" = 10'
 ON CIVIL DRAWING SCALE: 0 1/2" 1"

DATE: JUNE 2022
 SHEET NO.: 1110-1040-08
 PROJECT: 2022 LEVEE IMPROVEMENT PROJECT
 SHEET 25 OF 26
 DRAWING TITLE: 1110-1040

RECLAMATION DISTRICT 1601
 TWITCHELL ISLAND
 SACRAMENTO COUNTY, CA
 2022 LEVEE IMPROVEMENT PROJECT
 CROSS SECTIONS
 STA 511+00 TO 516+00

K&S
 K-JELDSSEN
 SINLOCK
 NEULDECK
 CIVIL ENGINEERS
 711 N. PULASKI AVENUE
 SACRAMENTO, CA 95821
 916-403-9500
 www.kns.com





	SUBMITTA % Date	NORTH ORIENTATION 	NO. DESCRIPTION DATE APPR.	DRAWING SCALE 1" = 10' ORIGINAL DRAWING SCALE 0 5/8" 1"	DESIGN BY: DAV DRAWN BY: DAV CHECK BY: JMI PROJECT/CLIENT: RECLAMATION DISTRICT 1601 VERTICAL CURVATURE: NAVD83	DATE: JUNE 2022 SHEET IDENTIFICATION: C-313 SHEET 25 OF 26 NSM PROJECT FILE NO: 1110-1040
	RECLAMATION DISTRICT 1601 TWITCHELL ISLAND SACRAMENTO COUNTY, CA 2022 LEVEE IMPROVEMENT PROJECT CROSS SECTIONS STA. 523+00 TO 529+00					
KJELDSEN SINICK NEUDECK Civil Engineers & Surveyors 7118 Rockledge Avenue Rockledge, CA 95230 209-944-0200 1550 Harbor Blvd., Suite 212 West Sacramento, CA 95681 916-403-8900 www.kjns.com						

Exhibit G

Twitchell Island Levee Improvement Project					
1110-1040					
CIVIL IMPROVEMENTS					
Opinion of Probable Construction Costs					
Item	Description	Unit	Estimated Quantity	Item Price	Total
1	Mobilization (3% of soil fill)	LS	1.0	\$19,000.00	\$19,000.00
2	Clearing and grubbing (5% of soil fill) (7.31 acres)	LS	1.0	\$31,000.00	\$31,000.00
3	Soil fill	TON	20,082.0	\$30.00	\$602,460.00
4	3/4 class 2 aggregate base	TON	4,915.0	\$40.00	\$196,600.00
5					
SUBTOTAL					\$849,060
CONTINGENCY 15%					\$127,359
TOTAL					\$977,000