

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
TUESDAY, AUGUST 19, 2025
9:00 AM
ENGINEER'S REPORT**

I. PROJECT FUNDING AGREEMENT TW – 21 - 1.2 TIMES/TWERP PROJECT

- A. Review the status of the Twitchell Island Wetland Enhancement & Restoration Project.
- B. The Board authorized going out to Bid for the Plans and specs for the planting/irrigation project anticipating the award the contract at this meeting. Due to some complications with the Specifications the project will be bid in September, and the award of the contract will be at the District's September Board Meeting.

II. PROJECT FUNDING AGREEMENT TW – 24 - 1.0 - SP PHASE II OF DISTRICT MULTI-BENEFIT PROJECT

- A. Review the status of the Twitchell Island Wetland Enhancement & restoration Project.
 - a) Received minimal comments for 95% Phase 1 Berm plans. We are finalizing some geotechnical design criteria with ENGEO and will then finalize plans.
 - b) Compensatory mitigation strategy:

Habitat Type	Agency	Needed Credits (acres)	Notes
Waters of the U.S.	USACE	0.9	Use of bulk credits through Delta Levees Program. Upcoming Johnson-Consummes Mitigation Bank is a backup option.
FM	CDFW	0.1	Use of bulk credits through Delta Levees Program (included in 0.9 acre).
RF/SS	CDFW	0.27	Use of bulk credits through Delta Levees Program.
GGs	USFWS	2.7	Working with USFWS and DWR about potential permittee-responsible mitigation at TWERP site.

- c) Met with Delta Stewardship Council, and GEI is working on Consistency Determination documentation.

- d) Still anticipate bidding Phase 1 this fall and beginning construction in May 2026.

III. DISTRICT PUMP STATION SOLAR ARRAY

A. PGE Interconnection

- a) Interconnection agreement:
 - 1. Awaiting approval on electrical plan updates in response to Sacramento County review.
 - a. Updated SLD to reflect equipment changes has been submitted to PG&E.
- b) Transformer: – **PG&E has engaged in this conversation**
 - 1. We have requested a site meeting to discuss layout challenges at the site. **PGE has rejected invite to on-site meeting.**
 - a. Only sub-surface transformers and constructed as watertight and cannot be installed above ground. The ground water at this location is very shallow, making installation in a vault sub-surface challenging.
 - b. Pad mount transformers cannot be installed on an elevated platform.
 - 2. **PGE has referred this matter to their standards department seeking a variance.**

B. Construction

- a) Site work
 - 1. As-built survey of final pile location conducted and analyzed for final baseplate fabrication and installation. – Complete
 - 2. Pile cap elevation survey – Complete
 - 3. Cut Piles to design elevation - Complete
 - 4. Install Pile Caps – Completed
 - 5. Weld Pile Pick hole Plugs - Completed
 - 6. Galvanize Piles and Caps - Completed
 - 7. Racking and PV Panel fabrication - **Completed.**

- a. PV Modules – Delayed, racking installation re-scheduled to early June.
- b. PV Modules – Delivered 6/30/25 scheduled to start on 7/21.

8. PV Module installation and stringing – Completed 8/13/25

9. County / Special Inspections

a. Underground electrical – signed off

b. Structural Bolting – Special Inspection completed

b) Scope Changes – No new changes to report

1. Change Order 01 – approved 2/11/25

- a. WCD 01 – Domestic Content / Safe Harbor procurement.

2. Change Order 02 – approved 2/11/25

- a. WCD 02 – Provide and Install 100 Ton Riprap to stabilize 3 subgrade locations identified during walkthrough.
- b. WCD 03 – Expand drainage ditch crossing to install duct bank across drainage ditch withing easement.
- c. WCD 04 – Provide additional 710 Ton Riprap for expanded un-stabilized sub-grade at unit rate. Removed WCD 02 lump sum directive.
- d. WCD 05 – Add additional 2,400 Ton Class II - ¾-inch Aggregate.

3. Potential Changes

- a. Transformer upsize: A larger transformer is required for the size of the array. Waiting on PGE Interconnection requirements to determine size requirements.
- b. Transformer location: Depending on PGE Interconnection requirements pole mount vs. pad mount vs. platform mount.
- c. Switchgear location: Modify pump house to mount switchgear inside structure.

- RFP in development, in review with electrical engineer. – Received minor comments from electrical engineer.

- RFP in contractors' court, awaiting pricing. **This RFP has been put on hold pending PGEs determination regarding switchgear location.**
- PGE standards division has communicated that per design standards the switchgear needs to be located local to the transformer. PGEs project manager is seeking a variance internally to allow switchgear inside of the pumphouse using the existing equipment location as a basis.
- d. Remove Concrete Bollards from Array Columns: Work Change Directive Issued.
- e. Data Acquisition System: Work Change Directive and CCO in development. – **On-going**
- c) Forecasted Schedule
 1. Carport racking installation –**Completed 8/13/25.**
 2. Switchgear installation – ~~June/July/August~~–**Unknown awaiting PGE.**
 3. **Project is on hold and delayed awaiting PGE**
- C. Summary of additional costs: **No Additional costs approved this term.**

EXHIBIT A: Field Photos of structural steel and array installation from KSN Inc Daily Field Reports

IV. SYSTEMWIDE MULTI BENEFIT PROJECT SEVENMILE SLOUGH EROSION REPAIRS.

A. Pre-Construction: Project Design and Permitting

a) Schedule

1. Survey – **September 2025**
2. **Revised plan set 90% submittal October 2025**

b) Plans

1. Currently at 60% and will be at 90% by the end of the week. (Updated imagery needed) – **Imagery captured and incorporated into plan set.**

2. Will submit to DWR for review by end of week. – **Delayed due to revised project footprint.**
3. **Project footprint revision:**
 - a. **DWR has authorized a revision to the project footprint. The project is being revised to extend the project to the West from Sta. 166+00 to 163+00 and reduced at the East from 180+00 to 072+00. (see below for context.)**
 - b. **Survey of the West section is scheduled for September.**
 - c. **Revised plan submission set on hold pending survey data.**

c) Environmental

1. **Dianne Moore, our contract Biologist, conducted a site assessment of the biological conditions present. It was determined that the 800 LF from Sta. 172+00 to 180+00 was going to make the project not feasible due to the mitigation cost to construct this section. It was also found that a segment of 300 LF to the East and deteriorated extensively and has light vegetation making this a more feasible option to construct within current project funding and a more immediate need.**

EXHIBIT B: Field Photos of revised project footprint from site meeting with biologist.

B. Construction

a) Schedule

1. Tentative Construction September ~~2025~~ 2026

- a. **Permitting requirements and project footprint revision has pushed anticipated construction to next season.**

V. AB 360 LEVEE SUBVENTIONS PROGRAM

- A. Review repair of Levee Seepage at Levee Station 235+00 to 236+75 (175 LF) just east of the center Island road along Sevenmile Slough Levee. Review use of District's Excavator for project and reuse of old Long Reach excavator's 2.0 ft wide bucket. Lira Welding performed minor fabrication on the bucket quick disconnect mechanism to be compatible with new Caterpillar Excavator.
- B. The Levee seepage has been repaired and stopped through the construction of a bentonite slurry core trench. Sac County's road shoulder rebuilt to subgrade (Class 2 - ¾ AB) now waiting on trench moisture to dry out, then Sac County will overlay and pave.

EXHIBIT C: Field Photos of seepage repair project

EXHIBIT A



1110-0950: Twitchell Solar Project - PV Module storage at Chevron Point Warehouse.



1110-0950: Twitchell Solar Project - Structural Steel Installation



1110-0950: Twitchell Solar Project - Structural Steel Installation



1110-0950: Twitchell Solar Project - PV Module installation



1110-0950: Twitchell Solar Project - PV Module installation



1110-0950: Twitchell Solar Project - Structural Steel Bolting



1110-0950: Twitchell Solar Project - PV Array

EXHIBIT B



1110-1061: ERP 7-Mile Slough - Revised project section



1110-1061: ERP 7-Mile Slough - Revised project section



1110-1061: ERP 7-Mile Slough - Revised project section



1110-1061: ERP 7-Mile Slough - Revised project section (reduced section)



1110-1061: ERP 7-Mile Slough - Revised project section (increased section)

EXHIBIT C



1110-9026: Station 236+00 Core Wall - Pre-existing condition



1110-9026: Station 236+00 Core Wall - Construction



1110-9026: Station 236+00 Core Wall - Construction



1110-9026: Station 236+00 Core Wall - Construction



1110-9026: Station 236+00 Core Wall - Construction