

MEMORANDUM

February 12, 2020

TO: Reclamation District No. 2028

FROM: Nathan Hershey, Mike Kynett

SUBJECT: February 2020 Engineer's Report

Described below are the engineering items to be discussed at your February 12, 2020 meeting.

Subventions 2018-19 – The District submitted an application for participation in the Program in the amount of \$500,000. \$12 million has been approved for Program funding for FY 2018-19, consistent with recent previous years. The District's final claim was been submitted in the amount of \$276,982.97. DWR and CDFW have performed their annual inspection and the claim is currently being processed.

Subventions 2019-20 – The District submitted an application for participation in the Program in the amount of \$615,000. DWR has lowered the Program funding amount to \$10 million for FY 2019-20.

Subventions 2020-21 – Applications for participation in the Program are due April 1. We will be working on a draft of the application and will submit the final package prior to the deadline.

Annual Maintenance – Attached are the current maintenance items we are tracking. We have reviewed the status of the stationing paddles on the island. One paddle has been damaged and needs to be replaced. We will also install paddles in the recently rehabilitated area (Stations 300-550). The paddles are scheduled to be installed later this month.

Special Projects – The enhancement component of the Old River multi-benefit levee rehabilitation project is in-progress. The slopes have been seeded, and straw and tackifier were installed to protect the newly placed fill. The habitat areas have been cleared and are being planted. The potted stock planting is complete, and the cuttings will be planted this month. The areas to be planted on the levee waterside slopes will also be planted this month. Herbicide will be applied to the slopes to control broadleaf vegetation and invasives.

We submitted a Full Proposal for a Directed Action project to rehabilitate the north and south levees in January 2019. DWR has agreed to fund the project design and we have received a funding agreement for the non-construction portion of the project. The District executed the agreement and it has been returned to DWR. Once the agreement is fully executed, we can begin work on the design.

Five Year Plan – Work on the Five-Year Plan is currently in progress. The proposed project phasing exhibit is attached, with a general goal of building all new projects to the State's Bulletin 192-82 levee standard. Areas recently rehabilitated would be raised to the 192-82 standard after the proposed rehabilitation projects are complete. The Plan must be completed by the end of 2020.

SB 88 – Work under Phase 2 of the measurement experiment (work plan for 2019 through Feb 2020) is wrapping up. All of the data collected through the summer irrigation season has been reviewed and analyzed. Review of data collected this fall and winter has begun. MBK has prepare a draft Report to update last year's

experiment summary report. A draft of the Report will be provided to MWD as soon as possible, with the intent to finalize by the end of February.

On behalf of MWD and the RDs, MBK submitted a Request for Additional Time (Request) to the Delta Watermaster on January 3, 2020. On February 6, 2020, MBK received approval for the Request from John Collins of the Delta Watermaster's office. The approval states that the newly approved Request will expire on January 1, 2021, and that if additional time is required, another Request should be submitted no later than December 1, 2020.

MBK has drafted a workplan for 2020 efforts, as outlined in the Request. The workplan primarily involves installing 8 additional flange magnetic meters on the water side of the highest use siphons, with at least one flow meter on each island. A preliminary list of sites to install flange magnetic meters has been identified. These sites will include telemetry equipment, with the intent to post data to the Reclamation District websites for each island. Approximate costs for equipment and installation for these sites has also been obtained. The workplan also includes the removal of equipment that does not show promise in meeting the accuracy requirements.

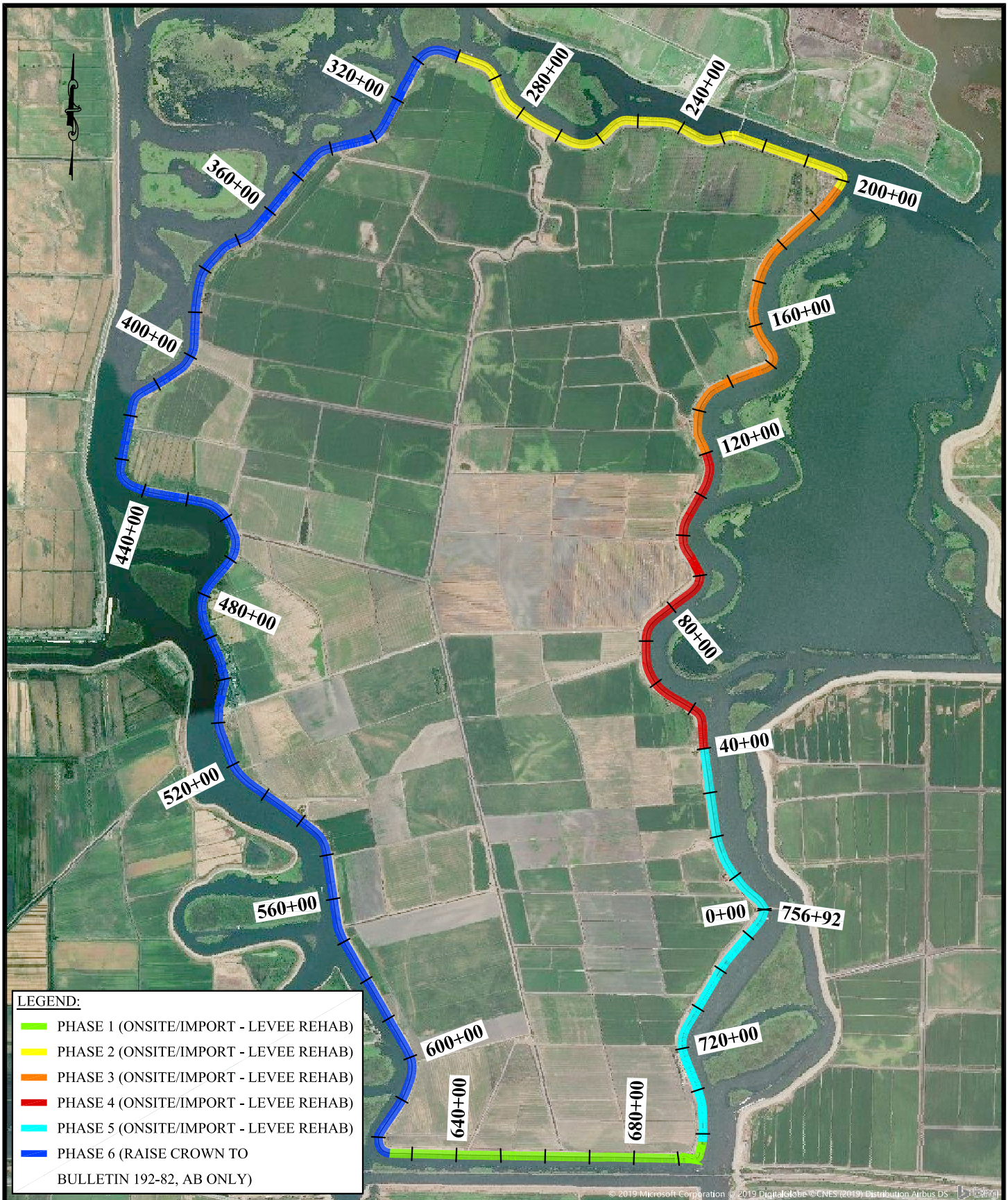
During a site visit to Bouldin Island on December 13, 2019 the vandalized test sites (Bouldin Island Siphon Nos. 39 and 40) were investigated. We found that the solar panels, dataloggers, and power supplies were stolen, but the flow sensors were not damaged and remain in place. Future site visits to all of the islands are currently on hold until diversions increase and/or activities related to the next phase of the Measurement Experiment begin.

Reclamation District No. 2028 Bacon Island

Issue Tracking Summary

2/7/2020

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
6	Medium	10/21/2016	Ralph Heringer	Station 275 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
8	Low	11/2/2016	Dave Forkel	Station 668-702	Encroachment	Eucalyptus trees present a hazard	Investigate	Review, explore removal
36	Low	2/24/2017	Nate Hershey	Station 712	Seepage	Seepage exiting at toe of slope near retaining wall structure.	Monitor	12/4/17 - Area dried up after winter; continue to monitor
43	Medium	4/4/2017	Brian Janowiak	Station 92-93	Seepage	Seepage existing at toe of slope, running across county road		
48	Low	6/14/2017	Dave Forkel	Station 190+00	Vegetation control	CDFW mitigation site shows evidence of arundo mowing.	Investigate	Discuss mitigation requirements.
72	Medium	1/17/2017	Junior	West and North levees	Boil	Numerous locations along west and north levees	Monitor all boil sites; containment berms built on two most severe boils	Continue to monitor; flows seem to have receded or stopped with lower tides
73	Medium	10/21/2016	Ralph Heringer	Station 465 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
84	Medium	4/4/2019	RussRyan	95+00	Boil	Lower tide now and I think the roadway pothole (boil ??) needs repair at some point. I know it's a county road. We'll have to figure since once the (what I'm assuming) is a leak of repaired then the road will need to also be repaired.	Repair	
95	Medium	12/12/2019	AndyReece	siphon north of Mel's	RodentActivity	possible beaver den under tree south of siphon	Investigate	



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RECLAMATION DISTRICT NO. 2028 BACON ISLAND

PROJECT PHASING EXHIBIT

SCALE:	1" = 3000'
JOB NUMBER:	4290-18
DRAWN BY:	JB
DATE:	10/10/2019
SHEET:	6 OF 6