

SUMMERS ENGINEERING

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MEMORANDUM

TO: Elisa Cardoza, Panoche Drainage District

FROM: Chris Linneman

DATE: September 9, 2021

SUBJECT: Prop 84 Budget Detail – Grassland Bypass Channel Access Road and Control Gate

A key project element of the Proposition 84 Grant Project Task 3 (Reuse Land and Reservoir Development and Conveyance Construction) is the installation of control gates at the Grassland Bypass Channel (GBC) inlet structure and the construction of an all-weather access road to the inlet of the GBC. The current inlet structure consists of a pair of concrete U boxes that provide bank stabilization at the pipe inlets but no means to control flow. The current access road to the GBC inlet is an unimproved field road, portions of which become flooded and impassable during wet weather conditions.

This project proposes to regrade and elevate the existing access road and improve the road surface with compacted aggregate base, and install control gates at the inlet to the GBC that will allow positive control of discharge into the San Luis Drain. Fill material from adjacent fields, affecting approximately 120 acres, will be used to elevate the existing access road. These fields will need to be redeveloped and replanted upon completion of the project. Field drains will be installed at field low points to facilitate drainage.

The project budget is below:

Grassland Bypass Channel Access Road and Control Gates

<u>Task Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
Furnish & Install (F&I) Control Gates	2	Each	\$ 7,000.00	\$ 14,000.00
F&I Road Subgrade	11200	Linear Feet	\$ 17.50	\$ 196,000.00
F&I Drainage Inlets	10	Each	\$ 5,000.00	\$ 50,000.00
F&I Compacted Road Base	11200	Linear Feet	\$ 15.18	\$ 170,000.00
Regrade & Replant Fields	120	acres	\$ 500.00	\$ 60,000.00
			<u>Total:</u>	<u>\$ 490,000.00</u>