



PARADISE IRRIGATION DISTRICT

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"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers."

Please consider how this agenda item relates to our mission.

TO: Board of Directors

FROM: Neil Essila, Assistant Engineer

DATE: September 14, 2018

RE: Proposed Contract for Engineering Services - Analysis of Magalia Outlet Pipeline Anchors

The outlet works for Magalia Dam were constructed in 1976. Water from Magalia Reservoir is withdrawn through a 67-foot high vertical intake tower that connects to a 9-foot diameter reinforced concrete tunnel, in which a 48-inch diameter steel transmission pipeline rests on concrete cradles; restrained by steel straps. The strap anchors are unrestrained 3/4-inch diameter steel hooks.

DWR Division of Safety of Dams (DSOD) staff has commented that they are concerned about the strength of the anchors for the steel straps that restrain the outlet pipeline. DSOD is concerned that the anchors may not perform well during a significant earthquake. DSOD has directed PID to check the anchors for section loss above the concrete contact, investigate the seismic capacity of the anchors and make repairs as needed.

Staff has circulated a request for proposals to qualified engineering consultants to assist the District with this task. The scope of work is in two phases. The first phase involves investigation of the existing anchors for structural adequacy. The second phase, if needed, will involve the design of repairs to address any deficiencies identified in Phase 1.

Proposals are due on September 14th, after the deadline for agenda circulation. Staff will prepare a recommendation to the Board for selection of a consultant and submit it at the Board meeting.

The following is requested:

"Accept the proposal from Consultant for a not-to-exceed cost of amount and authorize the District Manager to execute the professional services agreement for the District."