



GENERAL MANAGER
Jim Barrett

ASSISTANT GENERAL MANAGER
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Notice of Completion Attachment

Assessor's Parcel No.: APN 750-290-003; APN 750-300-015; APN 750-310-016; and APN 750-330-007

Project Description:

The Coachella Valley Water District (CVWD) intends to certify the East Side Dike, from Dune Palms Road to Interstate 10 (I-10), with the Federal Emergency Management Agency (FEMA) as a flood protection structure. CVWD previously completed hydraulic and scour analyses, and geotechnical investigation for the East Side Dike. The results obtained from the studies indicate that the western end of the East Side Dike adjacent to the Talavera Development is susceptible to erosion. In order to accredit a levee, FEMA requires that no appreciable erosion would occur during the 100-year flood (44 CFR 65.10). The definition of "appreciable erosion" is generally accepted to mean that any erosion that occurs would not threaten the stability of the levee. For the East Side Dike, erosion or loss of the levee embankment can occur from the removal of sediments from the waterside slope of the embankment by high velocities and by scour near the toe of the embankment, loss of support, and failure of part of the embankment slope.

To address the erosion potential and protect the dike from scour, CVWD proposes construction of approximately 3,420 lineal feet of concrete slope lining along the northern slope (water side slope) of the dike beginning at the dike's intersection with Dune Palms Road and continuing in a southeasterly direction ending adjacent to the Talavera development in Indio, Riverside County. Construction access to the site would be from Dune Palms Road and from the intersection of Avenue 38 and Madison Street. The Proposed Project would take place on parcels: APN 750-290-003; APN 750-300-015; APN 750-310-016; and APN 750-330-007.

The slope lining width varies from 27 feet to 34.5 feet and would extend from near the top of the existing dike down below the toe of the slope, where a 20-foot excavated trench would be required for construction of the footing. Temporarily excavated material would be stored north of trench and would be backfilled to cover the completed work to match the existing topography. The slope lining would require approximately 2,700 cubic yards (CY) of concrete and 22 CY of rebar to be placed. The temporary work area required during construction would be approximately 4,000 feet in length and approximately 90 feet wide. Construction equipment staging would occur within these limits.

Estimated earthwork includes excavation of approximately 115,000 CY balanced cut/fill. Construction equipment required at the site includes excavators, dozers, backhoe, graders, concrete trucks, dump trucks, water trucks and utility trucks. Construction access to the site will be from Dune Palms Road and from the intersection of Avenue 38 and Madison Street. Due to the low quantity of concrete that is required it is anticipated that concrete would be supplied by ready mix plants in the vicinity of the project site (Thousand Palms and Indio). Both ready mix plants are a 15 to 20 minute one-way drive to the project site. It is anticipated that 80 CY of concrete would be placed a day, which will require an average of 8 concrete trucks

per day with a load of 10 CY of concrete. The placement of concrete would require approximately 35 workdays.

Aggregate base would be applied to a portion of the 20-foot wide access road on top of dike to ensure a stable driving surface. These road repairs would begin from the dike's northwestern terminus for approximately 1,200 feet to the southeast. The aggregate base would vary in thickness from approximately 3 to 30 inches. Repairs to the surface of the dike would be performed as part of the Proposed Project to address locations with minor surficial erosion.

Construction is estimated for approximately 110 workdays (six months), beginning in July 2019.