Date:
September 21, 2011

Applicant:
City of Indio
Contact: Tom Rafferty, P.E.
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Applicant's Representative:
Dokken Engineering
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Project Name:
City of Indio - Indio Boulevard over the Coachella Storm Drain Seismic Retrofit and Scour Project, WDID No. 7A333122001

Receiving Water:
The Coachella Storm Water Channel, which is a tributary to the Salton Sea.

Location:
City or Area: City of Indio, County: Riverside
Longitude/Latitude 116°14'41.48"W / 33°44'7.32"N Township/Range T5S, R7E, S15

Project Description:
Purpose/Goal: The proposed project's purpose is to meet the standards of the Mandatory Seismic Retrofit Program in order to enhance public safety by upgrading the bridge's seismic safety to current standards.

The City of Indio, in conjunction with the California Department of Transportation (Caltrans) and the Federal Highway Administration (FHWA) propose seismic retrofit and scour counter measures for the existing northbound Indio Boulevard Bridge (Bridge No. 56C-0292) over the Coachella Storm Drain. The existing northbound Indio Boulevard Bridge is a 16 span concrete tee beam structure on concrete pile extensions. It is approximately 482 feet long and 33 feet wide. The structure was built in 1956 and has a sufficiency rating of 62.6. The existing southbound bridge (Br. No. 56C-0293), constructed in 1925, is a similar structure to the northbound bridge with a 12-inch waterline supported from the right overhang with straps at mid-span and wooden wedges at the bents.

Seismic retrofit work for the northbound bridge consists of pile shaft retrofit (steel casing around existing columns), hinge retrofit (addition of pipe and cable restraints), and foundation retrofit (placement of grade beams). All work will be staged and conducted from under the bridge at the specified locations. Although similar, proposed work on the southbound structure is limited to retrofitting the waterline supports. Scour countermeasures are also proposed as part of the project and include new concrete channel bottom lining and repair of existing channel side under mining. All work will be staged and conducted from under the bridge at the specified locations. The work associated with the project will require ground disturbance with excavation anticipated to reach approximately 6 feet below surface grade for scour, foundation, and pile work.

A portion of the Coachella Storm Drain channel lies within the proposed impact area. The Coachella Storm Drain is an ephemeral drainageway that qualifies as a water of the United States. The project will temporarily impact 3.84 acres of the storm drain channel. Scour countermeasures, consisting of concrete channel bottom lining and channel side under mining, will result in 0.86 acres of permanent impacts to the channel.
Concrete grade beams below the final surface of the channel will be placed between the piles of each pier (oriented along each pier line, parallel with the flow). Roughly 30 scour holes around piles will be filled with native channel sand to create a level surface. A concrete slab will then be placed for channel lining on the bottom of the channel.

Action:
Pending

Water Board Contact:
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