



Engineering, Operations, & Technology Committee

CRA Conduit Structural Protection Project

Item 7-1

April 10, 2023

Colorado River Aqueduct Structural Protection

Current Action

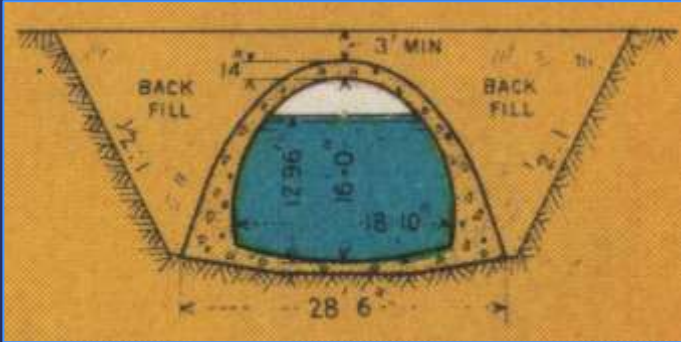
- Award a \$8,656,568 contract to Granite Construction Company to construct structural protection measures at 24 cut-and-cover conduit locations along the Colorado River Aqueduct (CRA)
- Authorize an agreement with Environmental Science Associates to perform biological surveys and environmental monitoring in an amount not to exceed \$1,200,000
- Authorize an agreement with Deto, Inc. to purchase compensatory environmental mitigation credits in an amount not to exceed \$325,000

Project Location



Background – Cut and Cover Conduits

- 55 miles of unreinforced cut-and-cover conduit along CRA
 - Constructed in 1930s as part of original aqueduct
 - Economical construction method
 - Not designed to support heavy vehicular loading
- Susceptible to damage from heavy vehicles
 - MWD maintenance activities require large equipment to cross over or placed in close proximity
 - Non-MWD vehicles potentially use access roads to cross the conduits with minimal soil cover
- Structural protection for H-20 loading required



Cut-and-Cover Conduit



Tunnel Cleaning Machine

Contractor - Scope of Work

- Construct reinforced concrete slabs, structural pads and retaining walls
- Re-align access roads
- Install new access covers at transition structures
- Perform grading and drainage improvements
- Install road signage indicating load restrictions



Typical Concrete Protective Slab



Transition Access Structure

Bid Results

Specifications No. 1878**

Bids Received	March 01, 2023
No. of Bidders	3
Lowest Responsible Bidder	Granite Construction Company
Low Bid	\$8,656,568
Range of Other Bids	\$9,966,000 to \$14,650,000
Engineer's Estimate	\$10,750,000
SBE Participation*	25.7%

* SBE (Small Business Enterprise) participation level set at 25%

** This contract will be conducted under the terms of Metropolitan's project labor agreement

Environmental Science Associates Agreement

Colorado River Aqueduct Structural Protection



Desert Tortoise

- Prequalified under RFQ No. 1265
 - Selected based on firm's expertise with CEQA compliance
- Provides environmental monitoring support
- Scope of work
 - Perform pre and post construction biological surveys
 - Conduct construction monitoring and reporting
 - Monitor for permit compliance with jurisdictional agencies
- NTE amount: \$1,200,000
- SBE 15%

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Deto, Inc. Agreement

- Construction adversely affects 1.76 acres of environmentally protected habitats
- Purchase 5.35 acres of compensatory mitigation credits as required by jurisdictional agencies
- Approved by California Department of Fish and Wildlife (CDFW) for purchase of credits
- NTE amount: \$325,000

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Soboba Band of Luiseño Indians Agreement

- All sites located within Soboba Band of Luiseño Indians ancestral tribal territory
- Scope of work
 - Tribal cultural resource monitoring
- Award under General Manager's Authority
- Not to exceed amount: \$85,000

Colorado River
Aqueduct
Structural
Protection

Metropolitan - Scope of Work

- Construction Management and Inspection
- Submittal review and preparation of record drawings
- Environmental monitoring
- Project management, project labor agreement administration, and project controls

Allocation of Funds

CRA Conduit Structural Protection

Metropolitan Labor

Owners Costs (Proj. Mgmt., Contract Admin., Envir. Support) \$ 760,000

Construction Inspection & Support 1,150,000

Submittals Review, Tech. Support, Record Dwgs. 450,000

Professional/Technical Services

Environmental Science Associates 1,200,000

Deto, Inc. 325,000

Soboba Band of Luiseño Indians 85,000

Construction Contract

Granite Construction Company 8,656,568

Remaining Budget 673,432

Total \$ 13,300,000

Project Schedule



Board Options

- Option #1
 - Adopt CEQA determination that the proposed action was previously addressed in the Mitigated Negative Declaration and related CEQA actions, and
 - a. Award a \$8,656,568 contract to Granite Construction Company for construction of structural protection measures at 24 cut-and-cover conduit locations along the Colorado River Aqueduct;
 - b. Authorize an agreement with Environmental Science Associates in an amount not to exceed \$1,200,000 for biological surveys and environmental monitoring; and
 - c. Authorize an agreement with Deto, Inc. in an amount not to exceed \$325,000 for compensatory environmental mitigation credits.
- Option #2
 - Do not proceed with this project at this time.

Staff Recommendation

- Option #1

