



# CRA Erosion Repair & Rehabilitation

Engineering and Operations Committee

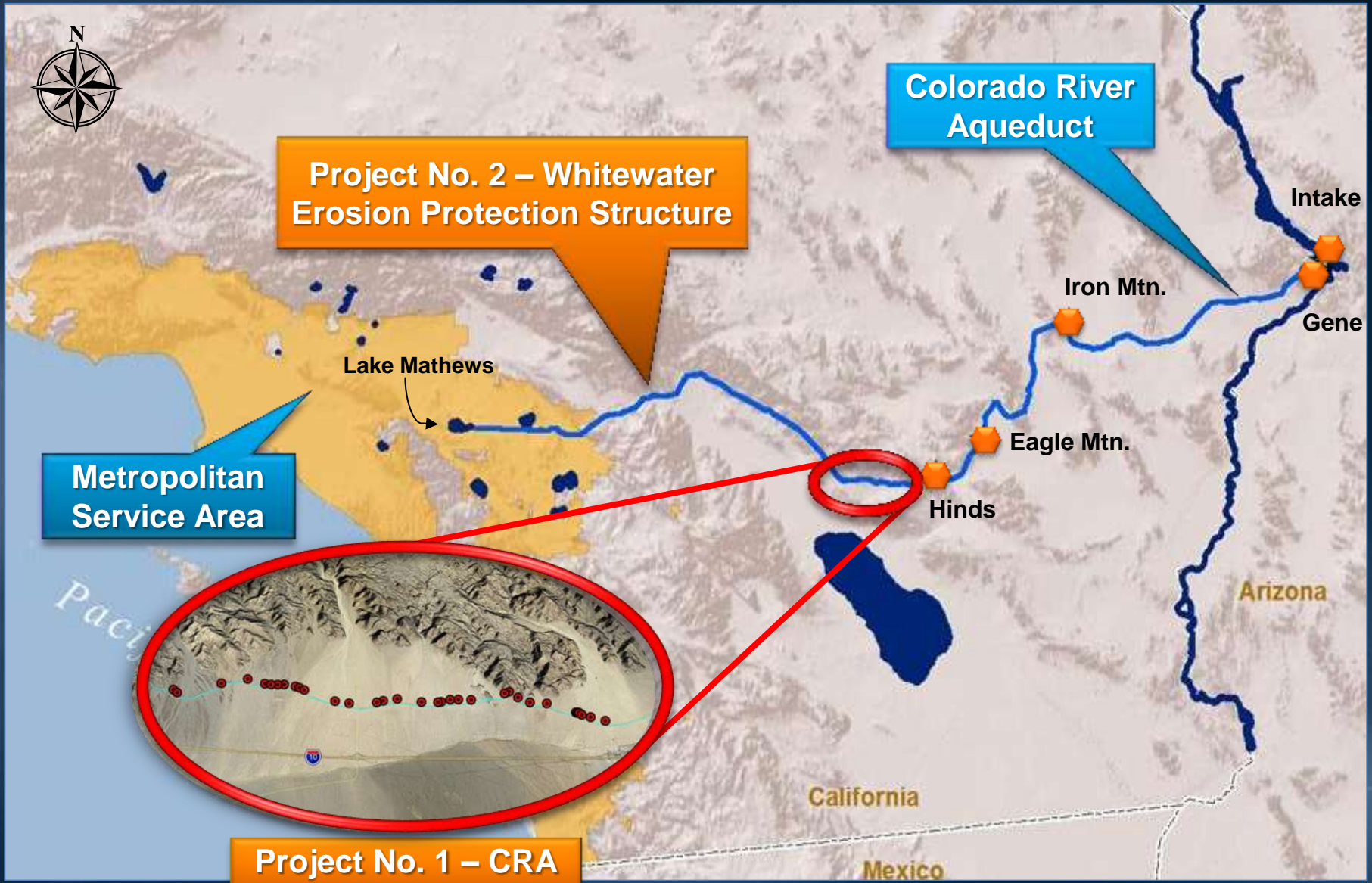
Item 8-2

April 8, 2019

# Current Action

- Award contract to Elite Earthworks & Engineering in amount Not-To-Exceed \$3.7 M for repair of erosion control features along the CRA
- Amend current Capital Investment Plan (CIP) to include the Whitewater erosion protection structure rehabilitation project
- Authorize design for rehabilitation of the Whitewater erosion protection structure
- Amend existing on-call agreement with Helix Environmental Planning, Inc.

# CRA Location Map



# 1. CRA Conduit Erosion Repairs Background



# 1. CRA Conduit Erosion Repairs Background



CRA patrol road



CRA

Berm Relief

Drainage channel

Earthen berm

# 1. CRA Conduit Erosion Repairs

- Work being conducted under U.S. Army Corps Regional General Permit 63 (emergency permit)
- Permit obtained in October 2018
  - Road restoration & restoring cover over CRA
- Amended authorization received February 2019
  - Repair of earthen berms and drainage channels
- Current expiration date: April 30, 2019
- Extension request pending Corps approval: June 30, 2019

# 1. Contract Scope

- Restore approx. 3.5 miles of earthen berm
- Re-establish approx. 9 miles of diversion channel
- Grading of eroded areas as necessary
- Unit price contract
  - Estimated quantities for base bid
  - Additional contract authority
  - Not-to-Exceed amount



# 1. Bid Results

## Specifications No. 1956

Bids Received:	Mar. 21, 2019
No. of Bidders:	3
Lowest Responsive Bidder:	Elite Earthworks & Eng.
Lowest Responsive Base Bid:	\$3,200,100
Engineer's Estimate:	\$1,919,000
Not-to-Exceed Contract Amount:	\$3,700,000

Due to the urgent nature of the repairs, no Small Business Enterprise (SBE) participation was established for this contract



# 1. Metropolitan Scope

- Review of submittals
- Construction inspection
- Environmental monitoring
- Project management and Contract admin.



# 1. Geospatial Professional Solutions, Inc.

- Scope of work
  - Aerial photogrammetry
- Estimated cost - \$100,000
- Utilize existing agreement
- SBE participation level - 100%
- No action required

## 2. Whitewater Erosion Protection



## 2. Project Milestones

- March 2013 – Authorized final design
- March 2017 – Awarded construction contract
- November 2018 – Construction complete



## 2. February 2019 Storm Damage



## 2. Scope of Work

- Design of structure rehabilitation features before 2019/2020 winter storm season
- Metropolitan
  - Design and technical reviews
  - Advertisement and receipt of bids
  - Environmental permitting & PM
- Design and Technical Support
  - Hazen & Sawyer
  - Helix Environmental Planning

## 2. Hazen & Sawyer

- Scope of work
  - Conduct field investigations
  - Prepare design drawings & specifications
- Estimated cost - \$125,000
- Utilize existing agreement
- SBE participation level - 20%
- No action required

## 2. Helix Environmental Planning, Inc.

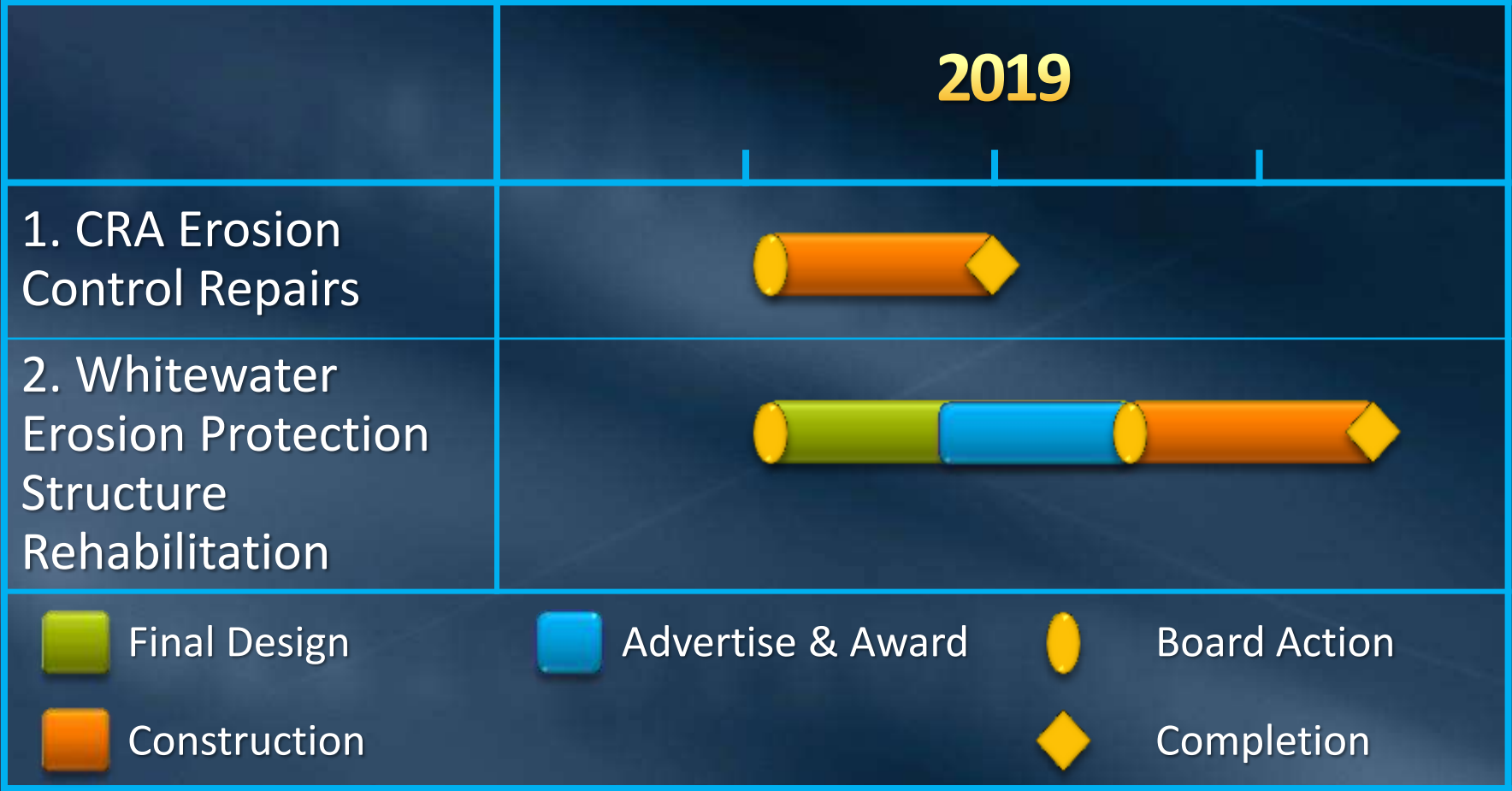
- Scope of work
  - Conduct biological surveys
  - Meet with regulatory agencies
  - Prepare regulatory permit applications
  - Provide general monitoring, permitting, CEQA support
- Estimated cost - \$150,000
- Utilize existing agreement
- SBE participation level - 100%
- Amend agreement for new NTE total of \$465,000



# Allocation of Funds

	1. CRA Erosion Repair (O&M)	2. Whitewater Rehabilitation (CIP)
Contract	\$3,700,000	-
Labor		
Design review	-	43,000
Program mgmt., envir. monitor.	255,000	142,000
Const. inspection	390,000	-
Submittal Review	35,000	-
Incidentals	20,000	-
Professional Services		
Geospatial Prof. Solutions	100,000	-
Hazen & Sawyer	-	125,000
Helix Environmental Planning	-	150,000
Remaining Budget	-	40,000
<b>Total:</b>	<b>\$4,500,000</b>	<b>\$500,000</b>

# Project Schedules



# Board Options

- Option #1
  - Award contract to Elite Earthworks & Engineering in amount Not-To-Exceed \$3.7 million
  - Amend current Capital Investment Plan (CIP) to include the Whitewater erosion protection rehabilitation project
  - Authorize design for rehabilitation of Whitewater erosion protection structure
  - Authorize increase to existing agreement with Helix Environmental Planning for new NTE amount of \$465,000
- Option #2
  - Do not proceed

# Staff Recommendations

- Option #1

