



Engineering, Operations, & Technology Committee

Change Order Authority Increase for CRA Overhead Bridge Cranes Project

Item 7-3

November 13, 2023

Item 7-3 Change Order Authority Increase for CRA Overhead Bridge Cranes Project

Subject

Authorizes an increase in change order authority for the contract to replace the overhead bridge cranes at five Colorado River Aqueduct pumping plants

Purpose

Perform lead remediation

Recommendation and Fiscal Impact

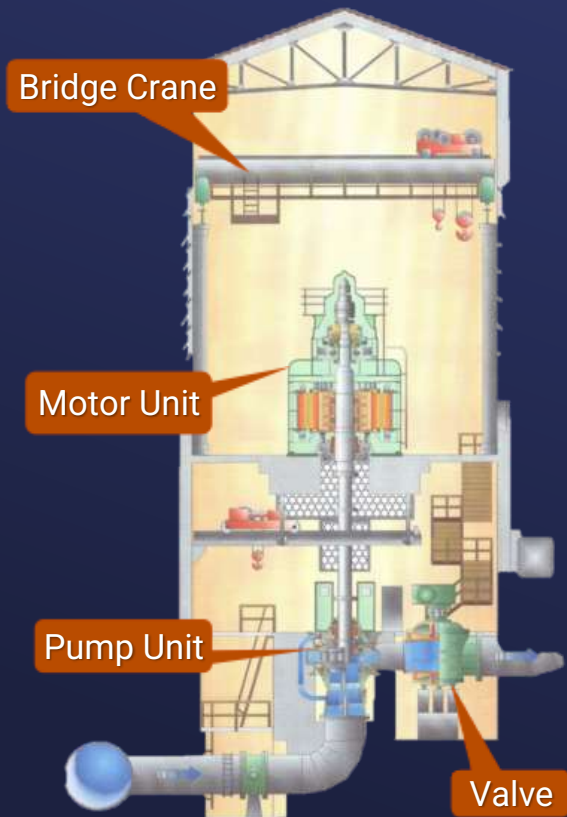
Authorize a \$3.1 million increase in change order authority for the contract to replace the overhead bridge cranes. Expenditure of \$3.1 million in budgeted O&M funds

Budgeted

Location Map



Change Order Authority Increase for CRA Overhead Bridge Cranes Project



Background

- Installed in the 1930s
- Single overhead bridge crane per plant
- Spans entire width of the plant
- Primary means to perform maintenance
- Cranes are deteriorated & require replacement
- Important precursor project to support CRA pump rehabilitation program

Change Order Authority Increase for CRA Overhead Bridge Cranes Project

Contractor Scope

- Sept. 2020 - Contract awarded to J.F. Shea Const. Inc.
- Contract amount - \$13,419,000
- Contract scope
 - Remove & replace overhead bridge cranes at all five CRA pumping plants
 - Upgrade bridge crane electrical system
 - Structural retrofit of crane supports
 - 6-week outage period per pumping plant
 - Work completed at Gene & Iron Mtn. Pumping Plants
- Construction is approx. 60% complete

Change Order Authority Increase for CRA Overhead Bridge Cranes Project

Change Order Authority Limits

- Change order authority determined by Admin. Code (Section 8123)
 - GM authority to execute change orders is the greater of:
 - 5% of the original contract amount
 - \$250,000
- Since 2018 – 115 contracts have been completed
 - 110 of the 115 contracts have stayed within their original change order authority amount
 - Average change order authority is 2.8%

Change Order Authority Increase

Contract No. 1946	
• Original contract value:	\$13,419,000
• Original change order authority:	\$670,950
March 2023 Change Order Increase	
• Upgrade crane & pendant controllers:	\$500,000
• Revised change order authority:	\$1,170,950
Requested Action	
• Proposed increase for lead remediation:	\$3,100,000*
• New change order authority:	\$4,270,950



Iron Mtn. Pumping Plant

* Per Governmental Accounting Standards Board (GASB) provisions lead remediation is conducted with O&M funds

Lead Remediation at Five Pumping Plants

- Contractor discovered undisturbed sticky lead dust in uppermost parts of the Iron Mtn. pumping plant
 - Metropolitan directed abatement of the pump house motor room floor
- Additional testing identified similar lead dust at Eagle Mtn., Hinds, & Intake Pumping Plants
 - Lead dust did not result from crane project work
- Air monitoring sample results below detection limit



Two Stage Lead Remediation

- Stage 1
 - Remediate all five pump houses
 - Includes walls, roof trusses, windowsills & light fixtures
 - Covered under requested change order increase



Two Stage Lead Remediation

- Metropolitan's Lead Management Program includes
 - Assessing work exposures
 - Establishing safe work practices
 - Overseeing remediation
 - Providing employee medical surveillance
- Stage 2
 - Perform comprehensive programmatic lead assessment of pump houses
 - Includes future rehabilitation of main motors & electrical facilities
 - Incorporate lessons learned into the program

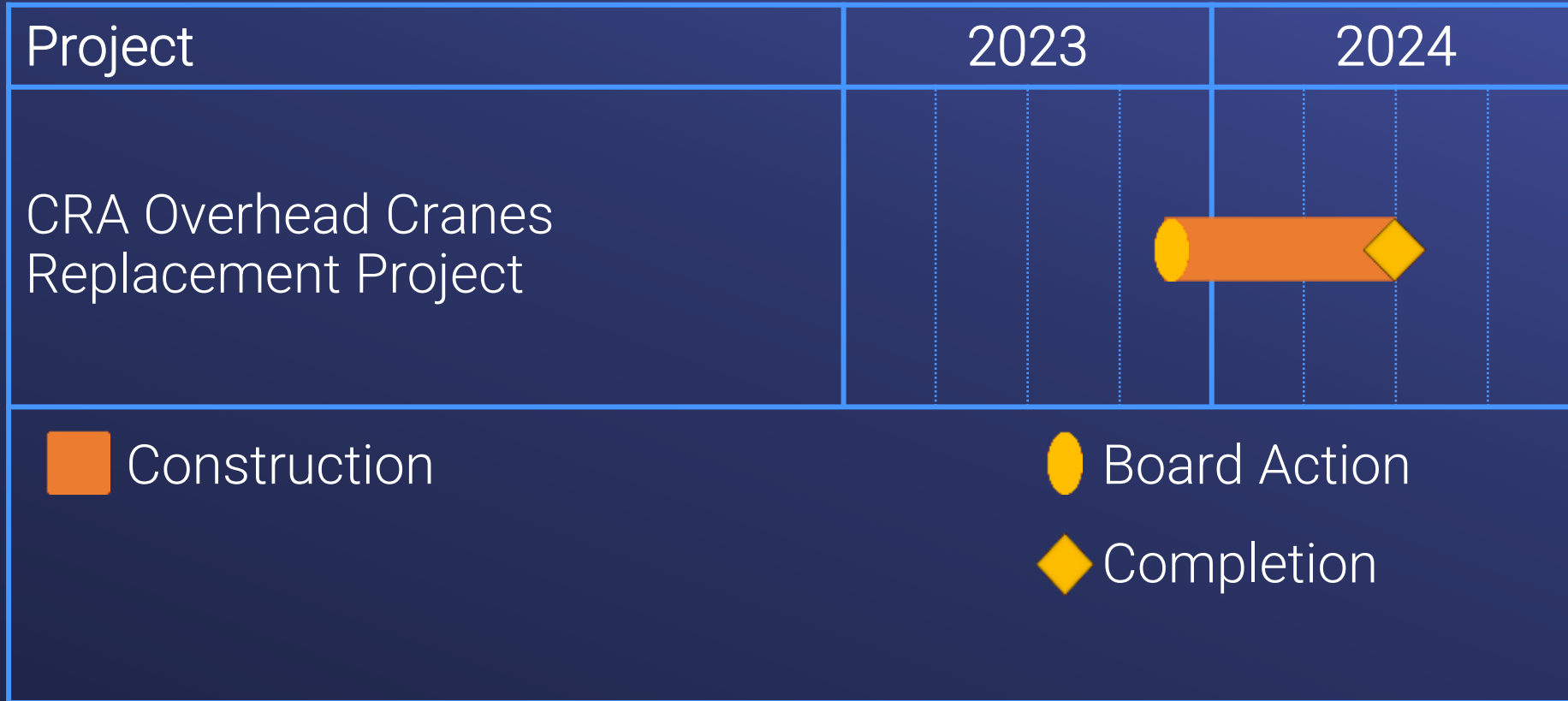


Change Order
Authority
CRA Overhead
Bridge Cranes
Replacement

Alternatives

- Complete hazardous material abatement under a separate stand-alone contract
 - Increases project costs, delays project & remediation schedule
- Selected Alternative
 - Use current contractor to complete change order work
 - All work completed in a timely & cost-effective manner

Project Schedule



Board Options

- Option #1

Authorize an increase of \$3,100,000 in change order authority for the contract to replace the overhead bridge cranes at the five Colorado River Aqueduct pumping plants.

- Option #2

Do not authorize an increase in change order authority.

Staff Recommendation

- Option #1

