

San Francisco Creek Bridge

Emergency North Bank Restoration

JPB Finance Committee
Agenda Item #9
May 22, 2023



San Francisquito Creek Bridge

Emergency North Bank Restoration

Project Location

CALTRAIN CORRIDOR



Previous Board Action

On May 4, 2023, Resolution 2023-23 renewed the previous Board's findings that:

- **An emergency**, as defined by Section 1102 of the California Public Contract Code, existed at the **north channel embankment** at the San Francisquito Creek Bridge due to erosion that threatened the integrity of the structure supporting the JPB's tracks; and
- The emergency **did not permit a delay** resulting from a formal solicitation for bids, and the JPB must continue to act expeditiously to repair necessary facilities; and
- Authorized emergency repairs without adopting plans and specifications or **giving notice to potential bidders**; and

Previous Board Action

- Delegated to the Executive Director, or designee, the authority: to approve all plans and/or designs; to **execute a contract with Walsh Construction II, LLC**, to undertake emergency repairs of the north channel embankment at the San Francisquito Creek Bridge at a price that staff has determined is fair and reasonable; and
- To take all other actions required to respond to said emergency, **provided that the Executive Director reports such actions to the Board at each monthly Board meeting until the emergency situation is resolved**, with a final report to be made at the first Board meeting after the emergency is resolved.
- **Requesting renewal of these previous Board Actions** pursuant to California Public Contract Code section 22050(c)

Geographic Location Overview



San Francisquito Creek North Bank Scour

Erosion threatens to undermine
(from left to right):

- **Rail bridge** owned by JPB
- **Drain outfall** owned by City of Menlo Park
- **Alma Street Bicycle Bridge** owned by City of Palo Alto







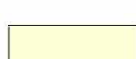

Recap and Current Status

JPB is advancing the design of the north bank restoration based on:

- Confirmation from the **Cities of Menlo Park and Palo Alto** that the project should include scope to address erosion around the Cities' assets;
- **Coordination meetings** with the Cities of Menlo Park and Palo Alto, the San Francisquito Creek Joint Powers Authority (SFCJPA) and Stanford University;
- Feedback received from **regulatory agencies**; and
- Recent topographic surveys, site observations, and **hydraulic modeling**; and
- **Drawings and lessons learned** from the 2013 Bonde Weir Fish Passage Improvement Project.

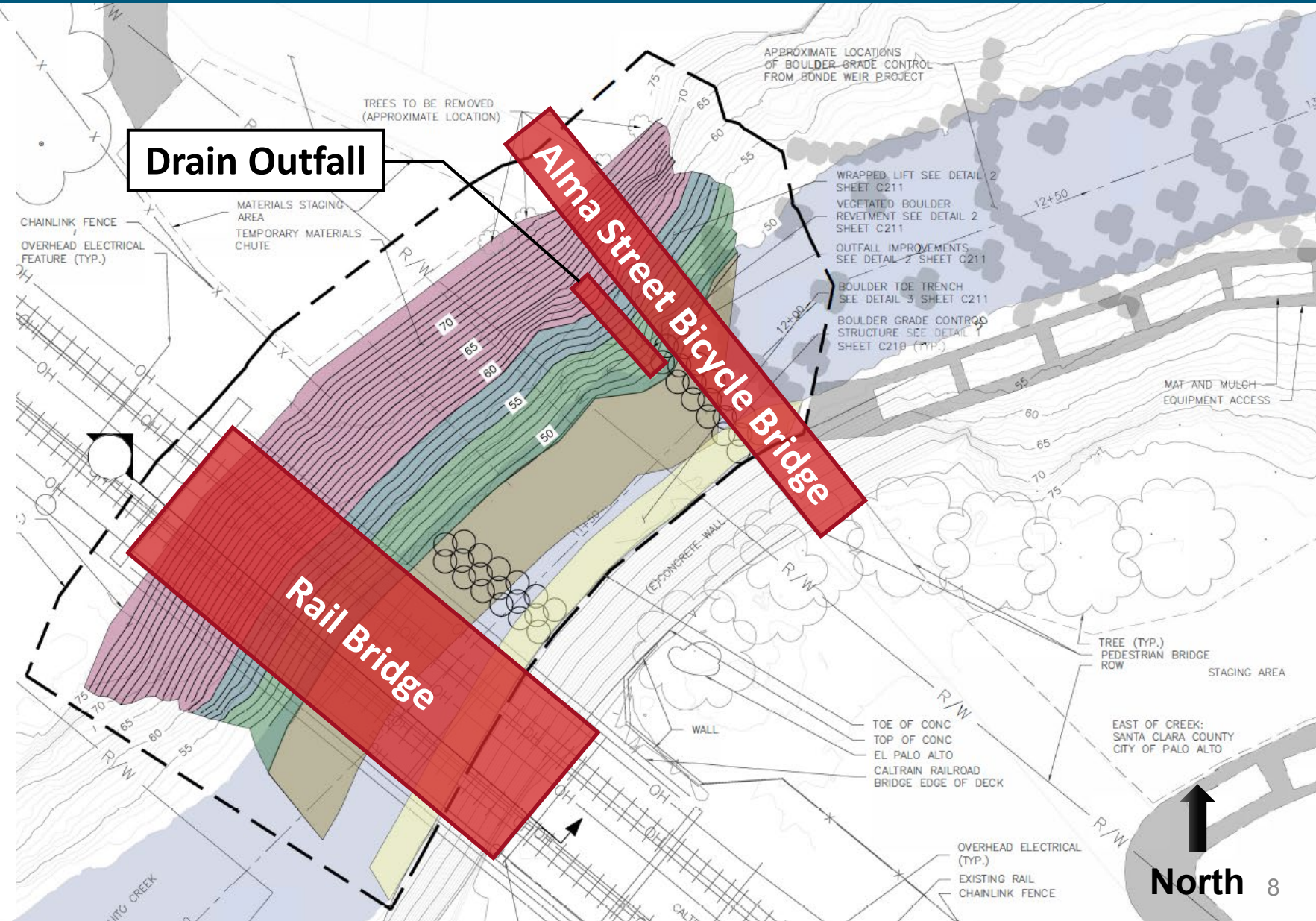
Preliminary Design Concept

LEGEND

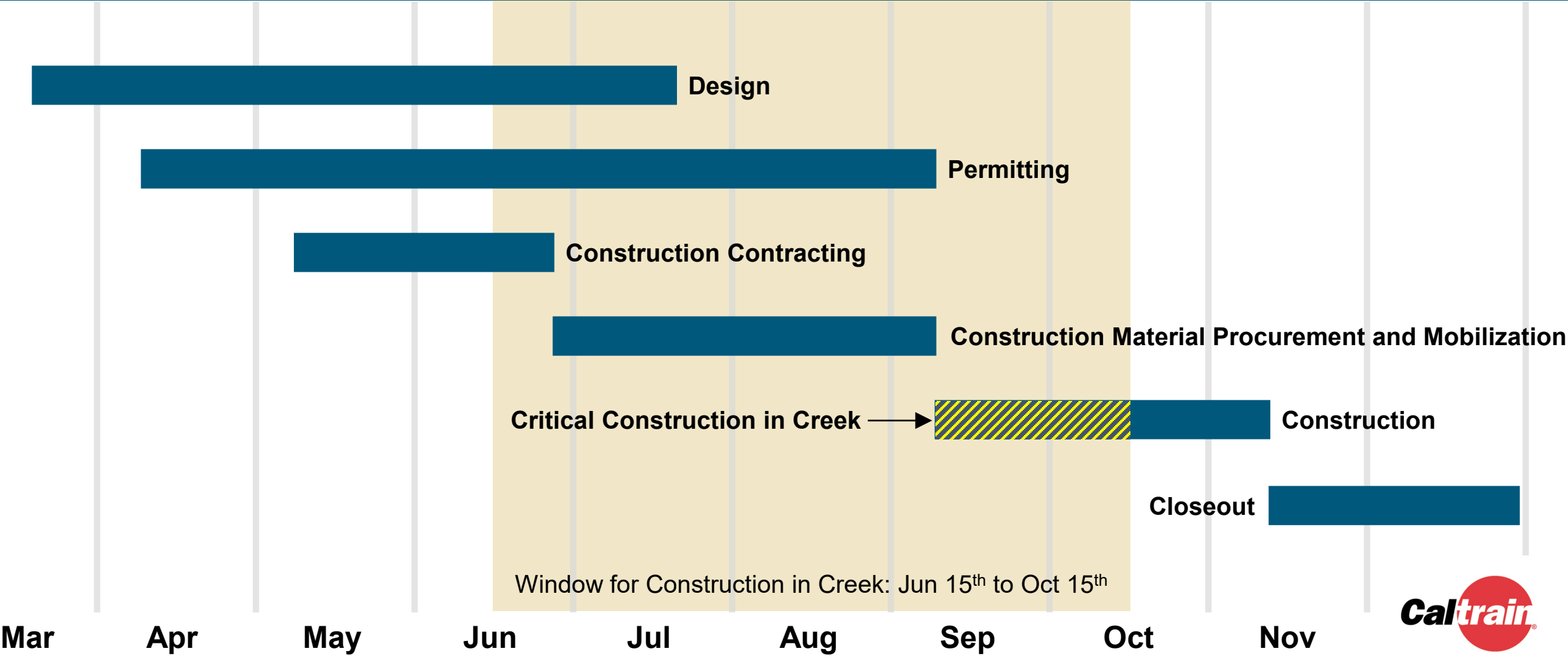
	Boulder Toe Revetment
	Vegetated Boulder Revetment
	Wrapped Lift
	Erosion Control
	Boulder Toe Trench
	Assets to be Protected

The scope of the project will address erosion around:

- Caltrain rail bridge
- Menlo Park drain outfall
- Alma Street Bicycle Bridge



Schedule



Cost and Funding

- **Total project cost estimates** for the project cost include survey, design, permitting, outreach, construction, construction management, and all other directly related agency costs, to derive a total estimated project cost at completion.
- As of **mid-April**, the preliminary total project cost projection was **\$10.4 million**.
- **Clearer project definition** in recent weeks has enabled more detailed estimating and a lower total project cost projection of **\$5.3 million**.
- JPB staff anticipates the **cost of the project will be shared** between the JPB, the City of Menlo Park, and the City of Palo Alto.

Consultant Contracting

- **AECOM** is actively **advancing the design** through a Work Directive under our existing On-Call GEC Design Services contract.
- **WSP** is actively supporting with **permitting and environmental clearances** through a Work Directive under our existing On-Call Environmental Planning, Permitting and Support Services contract.
- **TRC** is being engaged to perform **construction management** through a Work Directive under our existing On-Call Construction Management Services contract.

Construction Contracting

- **Walsh Construction Company II, LLC ("Walsh")** is constructing riverbank stabilization measures on the JPB's **Guadalupe River Bridge Replacement Project**.
- Walsh is being engaged to construct **similar creekbank stabilization measures** under similar permits for the San Francisquito Creek bank stabilization.

Construction Contracting

- The construction contract will **use time-and-materials** payment terms
 - Design is **not developed sufficiently** to support advanced lump-sum pricing
 - Scope of work and schedule must remain **flexible to adapt** to future permits requirements
 - In the absence of a competitive bidding environment, time-and-materials terms will **provide a basis for fair and reasonable compensation** based on actual costs.

Construction Contracting (continued)

- As the design progresses
 - JPB and Walsh will prepare **iterative, independent cost opinions**
 - To promote **consistent** cost expectations and
 - To establish a **reasonable not-to-exceed budget** for the work.
- JPB staff is evaluating the **optimal use of incentives** within the current contracting approach.

Requested Board Actions

JPB staff recommends that the Board **renew** its previous May 4, 2023, findings that:

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Requested Board Actions

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Questions

