

Bolinas Lagoon North End Sea Level Rise Adaptation Project



Conceptual Design Report





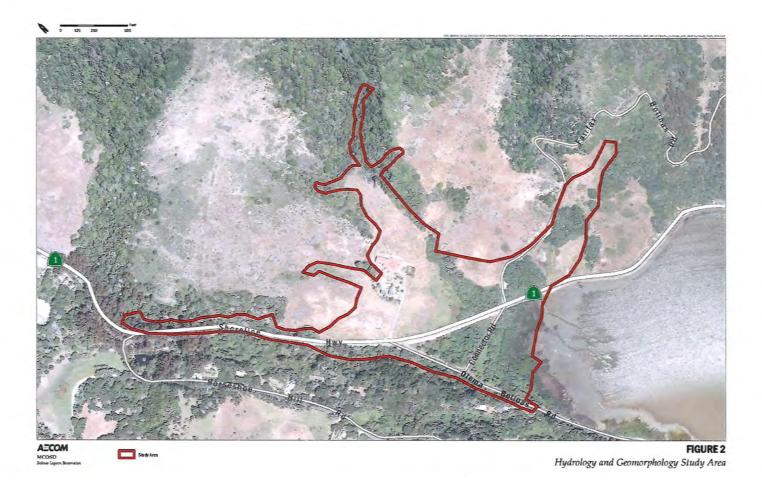
MARIN COUNTY BOARD OF DIRECTORS FEBRUARY 27, 2018

LOCATION





PROJECT AREA





PROJECT GOALS

- Restoring habitat and hydrologic connectivity
- Adapting to climate change and SLR
- Improving road safety









CONCEPTUAL DESIGN DEVELOPMENT

- Collaborative process (DPW, NPS, GFNMS, GFA, One Tam)
- Community Support
- Watershed based approach
- Long-term Vision



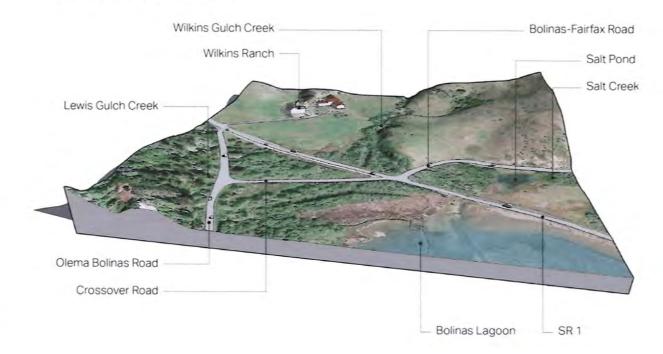


CONCEPTUAL DESIGN REPORT

- Alternatives 1, 2, 3
- Each alternative has 3 Phases
- Phase 1 is identical in all Alternatives

6.

EXISTING CONDITIONS BOLINAS LAGOON NORTH END





PHASE 1

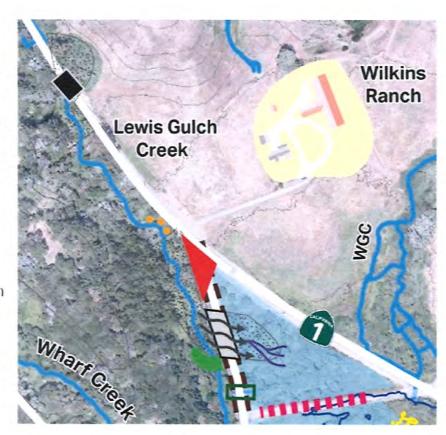
- Remove fish passage barriers for anadromous fish
- Improve hydrologic processes for Lewis Gulch Creek
- Improve hydrologic connectivity
- Enhance wetland and riparian habitat
- Reduce the risk of flooding



PHASE 1

Draft Conceptual Not to Scale Phase 1

- Crossover Road Removed
- Reconfigure Intersection
- Streambank Stabilization
- Add Bridge
- Upgrade Culvert
- Add Culvert
- Surface Water Flow
- Reactivate LGC Alluvial Fan
- Floodplain Grading (LGC)
- Vegetated Berm (Lewis Gulch Creek)
- Stream Braid
- Raise Roadway





- Reconfigure intersection of SR 1 and Olema-Bolinas Road
- Remove cross-over road
- Rehabilitate Lewis Gulch Creek



PHASE 1 - ROAD IMPROVEMENTS





PHASE 1 - HABITAT ENHANCEMENT

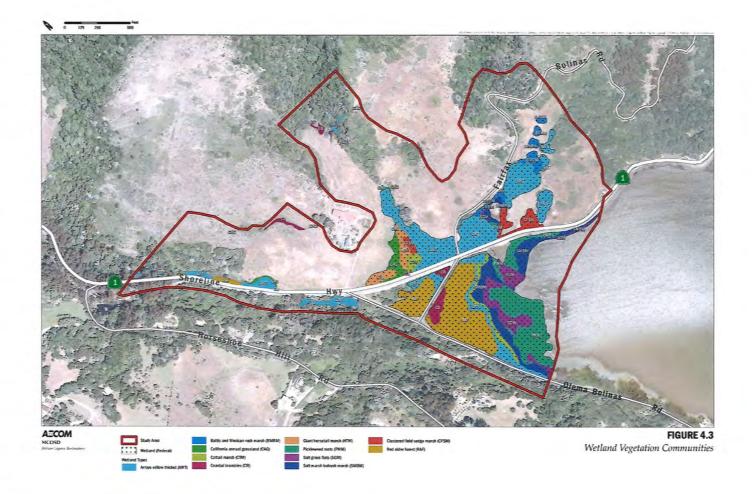








PHASE 1 - HABITAT ENHANCEMENT





Next Steps



PHASE 1 - DESIGN AND ENVIRONMENTAL REVIEW

- \$258,000 Coastal Conservancy Prop 1 grant
- RFP for Design and Environmental Review
- CEQA and Permitting following 30% Design
- Completed by December 2020



PHASE 1 - CONSTRUCTION

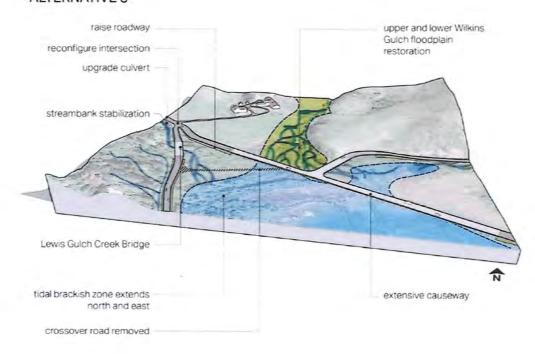
- Preliminary estimated cost range between \$5,000,000 and \$10,000,000
 - CDFW; SCC; USFW; NOAA; NCWC
- Beginning in 2021, depending on funding permitting, and other factors
- Length of construction estimated to be between one and two years depending on permit conditions and construction windows



LONG-TERM VISION

15.

ALTERNATIVE 3



- Partner and community engagement
- Outreach and communication
- Funding strategy



STAFF RECOMMENDATION

- BOD accepts the Conceptual Design Report
- Recommends staff to proceed with the design and environmental review of Phase 1



QUESTIONS



Veronica Pearson, vpearson@marincounty.org

