

Working Together Toward a Resilient Coastal Rail Corridor

Darrell E. Johnson, OCTA Chief Executive Officer LOSSAN Rail Corridor Resiliency Subcommittee • April 29, 2024



Mariposa Point Track Protection (MP 204.2)









- Work included:
 - Removing two damaged spans of the pedestrian bridge
 - Grading the slope and clearing debris
 - Placement of Visqueen plastic, and other best management practices to prevent surface water infiltration
 - Building a 200-foot catchment wall to keep soil and debris from entering the rail right of way

Project Cost: ~\$9.2 million

- Caltrans issued an emergency declaration, allowing OCTA to request emergency funding
- Fully funded by the California Transportation Commission
- \$2 million Phase 1 (cleanup)
- **\$8 million** Phase 2 (catchment wall)

Jan. 24: Rail line closes

Feb.1: Caltrans issues emergency declaration

Feb. 7: CTC authorizes \$2 million for debris removal and pre-construction services

Feb. 16: CTC authorizes \$7.2 million for wall construction

March 6: Limited Amtrak Pacific Surfliner service resumes

March 25: Full passenger service resumes

Partnering for Resilient Rail Solutions



Emergency rail projects highlighted the critical role of partnerships in rapid response and restoration of services.

Initial Response	New Policy	Policy Outcomes	Future Direction
2022	2023	2023 - 2024	
 These actions allowed OCTA to expedite work at Cyprus Shore to safely restore passenger rail service: Caltrans declares state transportation emergency CTC holds special meeting for emergency funding OCTA Board declares emergency 	 CTC establishes new policy allowing for funding allocations for emergencies impacting publicly-owned rail facilities: Policy influenced by OCTA's experience at Cyprus Shore 	 New policy expedites approval and funding process for both Casa Romantica and Mariposa Point, allowing OCTA and Metrolink to quickly build walls to protect the tracks and safely resume passenger rail service 	 OCTA is underway on a study looking at near- term solutions to protect Orange County's coastal rail infrastructure

Coastal Rail Resiliency: A Two-Phase Approach



Coastal Rail Resiliency Study short- to medium-term solutions

- Study underway
- Develop options to protect 7 miles of coastal rail infrastructure at various sea levels
- Gain an understanding of climate effects on coastal rail infrastructure
- Identify potential solutions, including sand replenishment and retention
- Engage key stakeholders and agencies

Coastal Rail Long-Term Solutions Study

- Develop options for potential longterm solutions for the coastal section of rail line
- Create an action plan for key elements
- Partner with LOSSAN, state and federal agencies
- Engage key stakeholders and agencies

Coastal Rail Resiliency Study: Initial Assessment

ОСТА

- Four reinforcement areas that are most vulnerable to beach erosion, wave impacts and slope failure were identified in December 2023
- Potential solutions need to be in place or substantially underway by fall 2024 ahead of next storm season to avoid potential interruptions to rail operations
- Potential solutions evaluated at a conceptual level considering different materials, performance, costs, methods and schedule



Coastal Rail Resiliency Study Initial Assessment Estimated Project Timeline: Typical Permit Process





Environmental Compliance & Permitting:

- Assumes all work qualifies under the California Environmental Quality Act emergency provisions and National Environmental Policy Act Categorical Exclusion
- California Coastal Commission
 - $\circ~$ A Coastal Development Permit would require completed permitting process prior to work beginning
 - $\circ~$ All work assumes advance coordination with Coastal Commission on appropriate permit process
- U.S. Army Corps of Engineers
 - Anticipates requirement of a Nationwide Permit 13

Construction & Sand Nourishment:

- Catchment wall construction timeline assumes no sensitive species, habitat, and/or aquatic resources that require additional permitting
- Sand nourishment schedule assumes OCTA can procure sand via dredging by fall 2026
- Assumes ~480,000 to 540,000 cubic yards of sand nourishment through one cycle, pending permits, dredge, and borrow source availability

Schedule and cost are preliminary and subject to change

Coastal Rail Resiliency Study Initial Assessment Estimated Project Timeline: Expedited Permit Process





Environmental Compliance & Permitting:

- Assumes all work qualifies under the California Environmental Quality Act emergency provisions and National Environmental Policy Act Categorical Exclusion
- California Coastal Commission
 - \circ All work assumes advance coordination with Coastal Commission on appropriate permit process
- U.S. Army Corps of Engineers
 - Assumes Regional General Permit (RGP 63) for sand nourishment
 - Nationwide Permit 13 (if applicable, adds a minimum of 6 months)

Construction & Sand Nourishment:

- Catchment wall construction timeline assumes no sensitive species, habitat, and/or aquatic resources that require additional permitting
- Sand nourishment schedule assumes OCTA can procure sand via dredging by fall 2024, otherwise timeline requires a minimum of one to two more years for next available dredger scheduled in the area
- Assumes ~480,000 to 540,000 cubic yards of sand nourishment through one cycle, pending permits, dredge, and borrow source availability

Schedule and cost are preliminary and subject to change

Coastal Rail Resiliency Study: Milestones



LISTENING SESSIONS

- Engage with a wide range of stakeholders with unique and diverse backgrounds and needs
- Obtain feedback from stakeholders and interest groups: winter '24

3

INITIAL CONCEPT DEVELOPMENT

- Draft Concepts: spring to Fall '24
- Obtain feedback from stakeholders and interest groups: fall '24

5

DRAFT FEASIBILITY STUDY REPORT

- Draft Report: spring '25 to summer '25
- Obtain feedback from stakeholders and interest groups

INITIAL ASSESSMENT

- Initiated: Nov '23
- Potential reinforcement areas identified: Dec '23

2

• Release Report: Feb '24

PURPOSE AND NEED/ EVALUATION CRITERIA

4

- Draft: Spring '24
 - Informed by listening session feedback

REFINEMENT OF CONCEPTS

• Refined Concepts: spring '25

6

 Obtain feedback from stakeholders and interest groups: spring '25

FINAL FEASIBILITY STUDY REPORT

- Final Report: fall '25
- Present to Board/Publish Final Report: fall '25