

# **Citizens Advisory Committee**

**Tuesday, July 15, 2025** 



### **Meeting Purpose/Focus**

#### Emergency Rail Projects past projects

- Cyprus shore (9/22 4/23)
   slope secured with ground anchors
- Casa Romantica (4/23 7/23)
   temporary catchment wall built
- Mariposa Point (1/24 3/24)
   temporary catchment wall built
- Remove temporary catchment walls at Casa Romantica and Mariposa
   Point when appropriate
- Mitigation discussion are ongoing for the Cyprus Shore

#### Coastal Rail Stabilization Priority Project immediate needs

- Address imminent threats to maintain rail operations
- Four reinforcement areas identified as top priority
- Projects include armoring, catchment wall, trail restoration and sand replenishment
- \$305M in state and federal funds secured
- Recent emergency riprap repair was completed on June 7<sup>th</sup>
- Project website

#### Coastal Rail Resiliency Study short- to mid-term solutions

- Develop solutions to protect the seven mile of coastal rail infrastructure
- Support the implementation of solutions that positively impact the surrounding community

#### Solicit public input on:

 Draft alternative concepts focused on the short- to midterm (10-30 years) timeframes

#### Coastal Rail Long-Term Solutions Study Iong-term solutions

- State-led study
- Develop options for longterm solutions including potential rail line relocation
- Create an action plan for key elements
- Partner with LA-San Diego-San Luis Obispo Rail Corridor Agency (LOSSAN), state, and federal agencies
- Engage key stakeholders

## **Study History**

- Coastal Rail Resiliency Study (CRRS) kicked off in late 2023 to assess existing and future risks, challenges, and potential solutions to protect the rail line.
- Study area includes all seven miles of the coastal rail line in Orange County.
- OCTA held listening sessions in January through May 2024 to gain community, community-based organization, and stakeholder feedback.
- OCTA conducted an Expert Panel in December 2024
- Study has been split into three timeframe concentrations:
  - Immediate (<10 years)</li>
  - Short- to mid-term (10-30 years) ← today's update
  - Long-term solutions (30+ years led by State, timing TBD)



# **Draft Alternative Concepts (Purpose and Need)**

#### Purpose

- Evaluate and prioritize adaptation strategies and engineering solutions that would maintain railroad operations generally within the existing right-of-way for up to the next 30 years.
- Identify and assess vulnerable locations that are at risk of railroad damage or operational disruptions.
- Minimize future disruptions and closures to improve service reliability.
- Support stewardship of the railroad corridor to implement multi-beneficial solutions that would
  positively impact the surrounding community.
- Build on the work of others in the region that would help to further protect the rail line.

#### Need

- A safe and reliable railroad corridor that can support the movement of people, freight, and national military readiness.
- A stable and dependable railroad corridor that is resilient against natural coastal erosion, increasing storm frequency and intensity, and accelerated sea level rise.
- Improved regional and freight operations by mediating continuous bluff failure and landslides that are impacting the railroad tracks.

### **Draft Alternative Concepts (Goals and Objectives)**

- Continual stakeholder engagement
- Minimize passenger and freight service disruptions
- Protect the railroad in place (up to 30 years)
- Assess, identify, and develop a program of capital projects within the OCTA ROW
- Develop short-term (ten years) and mid-term (30 years) conceptual alternatives
- Work with adjacent stakeholders to develop a comprehensive coastal capital program with roles and responsibilities beyond the OCTA ROW



OCTA – Orange County Transportation Authority ROW – Right-of-Way

### **Draft Alternative Concepts**

- Bluffside Concepts
- Beachside Concepts
- Rail Concepts



#### **COASTAL RAIL** RESILIENCY STUDY

### **Draft Alternative Concepts\***

#### **Bluffside**

- 1. Catchment walls (block slide debris)
- 2. Stabilization grading (buttress slide toe)
- 3. Tieback / soil nail / pin-pile walls (mitigate larger slides)
- 4. Ground improvement (bluff stabilization)
- 5. Surface matting & deep-rooted vegetation planting (reduce sediment erosion)
- 6. Drainage improvement via grading / detention basins / undertrack outlets
- Deflection walls in tributaries (reduce flood and sedimentation flow rates)
- 8. Up-gradient cut-off drains (reduce source of water)
- 9. Hydraugers (lower hydraulic pressure and slide potential)

#### **Beachside**

- 1. Riprap placement
- 2. Engineered rock revetment
- 3. Vertical seawall
- 4. Hybrid structural solution
- 5. Beach nourishment with shoreline protection structure (1-4 above)
- 6. Beach nourishment with sand retention measures & shoreline protection structure (1-4 above)
- 7. Watershed modifications to increase beach sand supply (implemented by others)
- 8. No railroad action monitor regional beach nourishment activities and participate as appropriate

#### <u>Rail</u>

- 1. Elevate tracks
- 2. Alternative materials for critical railroad infrastructure to reduce lifecycle costs
- 3. Ground improvement (track-bed stabilization)

\*No order of preference \*See handout for glossary of terms

### **Next Steps**

PURPOSE & NEED/ EVALUATION CRITERIA	DRAFT CONCEPT DEVELOPMENT	REFINEMENT OF CONCEPTS	DRAFT FEASIBILITY STUDY REPORT	FINAL FEASIBILITY STUDY REPORT
<ul> <li>Draft: summer '24</li> <li>Informed by listening session feedback</li> </ul>	<ul> <li>Draft alternative concepts: summer to fall '24</li> <li>Obtain feedback from public, stakeholders and interest groups: fall '24 to summer '25</li> </ul>	<ul> <li>Refined alterative concepts: summer to fall '25</li> <li>Obtain feedback from public, stakeholders and interest groups: winter '25 to spring '26</li> </ul>	<ul> <li>Draft report: fall '25 to spring '26</li> <li>Obtain feedback from public, stakeholders and interest groups: summer '26</li> </ul>	<ul> <li>Final report: summer '26</li> <li>Present to Board / publish final report: fall '26</li> </ul>



\*Subject to change Board: OCTA Board of Directors

# **Stay Connected**

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**Public Outreach** 



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### Study website and email:

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