



Update on Emergency Need for Railroad Track Stabilization in the Vicinity of Mile Post 203.80 to 204.40 and 206.00 to 206.70 on the Orange Subdivision



Coastal Rail Stabilization Priority Project

- Four priority reinforcement areas were identified in January 2024
- Proposed solutions evaluated at a preliminary design level considering different materials, performance, costs, methods, and schedule

Area	Location (MP)	Challenge	Proposed Solutions	Project Status
1	203.80 - 203.90	Ongoing deterioration of existing riprap protection	Riprap repair (900 tons/600 CY) followed by sand nourishment	Riprap construction complete. Initial sand nourishment complete, larger sand nourishment environmental clearance process in progress
2	204.00 - 204.40	Erosion - no beach at high tide and direct wave attack damaging existing riprap protection	Riprap repair (6,750 tons/4,500 CY) followed by sand nourishment	Riprap construction complete. Initial sand nourishment complete, larger sand nourishment environmental clearance process in progress
3	204.07 - 204.34	Steep bluffs with high potential for failure that could impact rail infrastructure	1,400-ft catchment structure	Construction underway
4	206.00 - 206.10 206.42 - 206.70	Near San Clemente State Beach - erosion exposing areas of limited to no riprap protection	Riprap repair (2,100 tons/1,400 CY) and 1,200-ft shoreline protection structure followed by sand nourishment	Obtaining permits for field investigation. Sand nourishment environmental clearance process in progress

MP – Mile Post
CY – Cubic Yard





Areas 1 and 2 Riprap Repair and Initial Sand Nourishment

Riprap repair

- All construction activities have been completed
- Provided responses to the California Coastal Commission (CCC) on Emergency Coastal Development Permit (eCDP) conditions of approval for Areas 1 and 2
- Staff is addressing CCC Notice of Incomplete letter which requested additional construction data and a sand nourishment schedule update

Initial sand nourishment

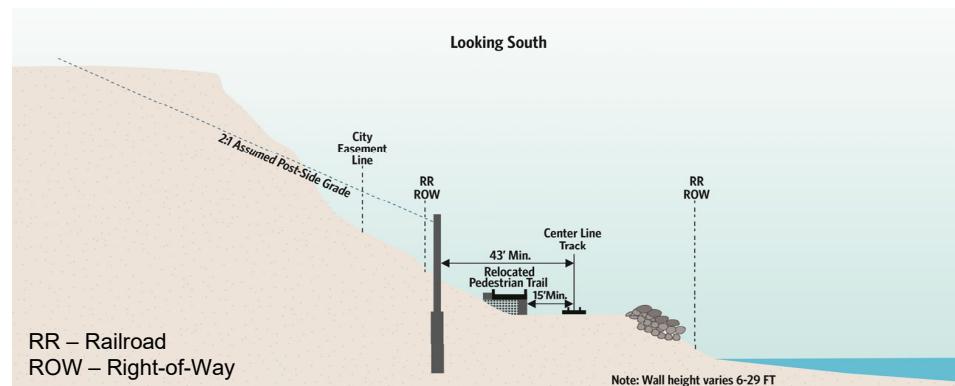
- Initial sand nourishment, completed on September 10, 2025, is part of the larger effort to place 240,000 CY of sand in Areas 1 and 2, as approved by the CCC





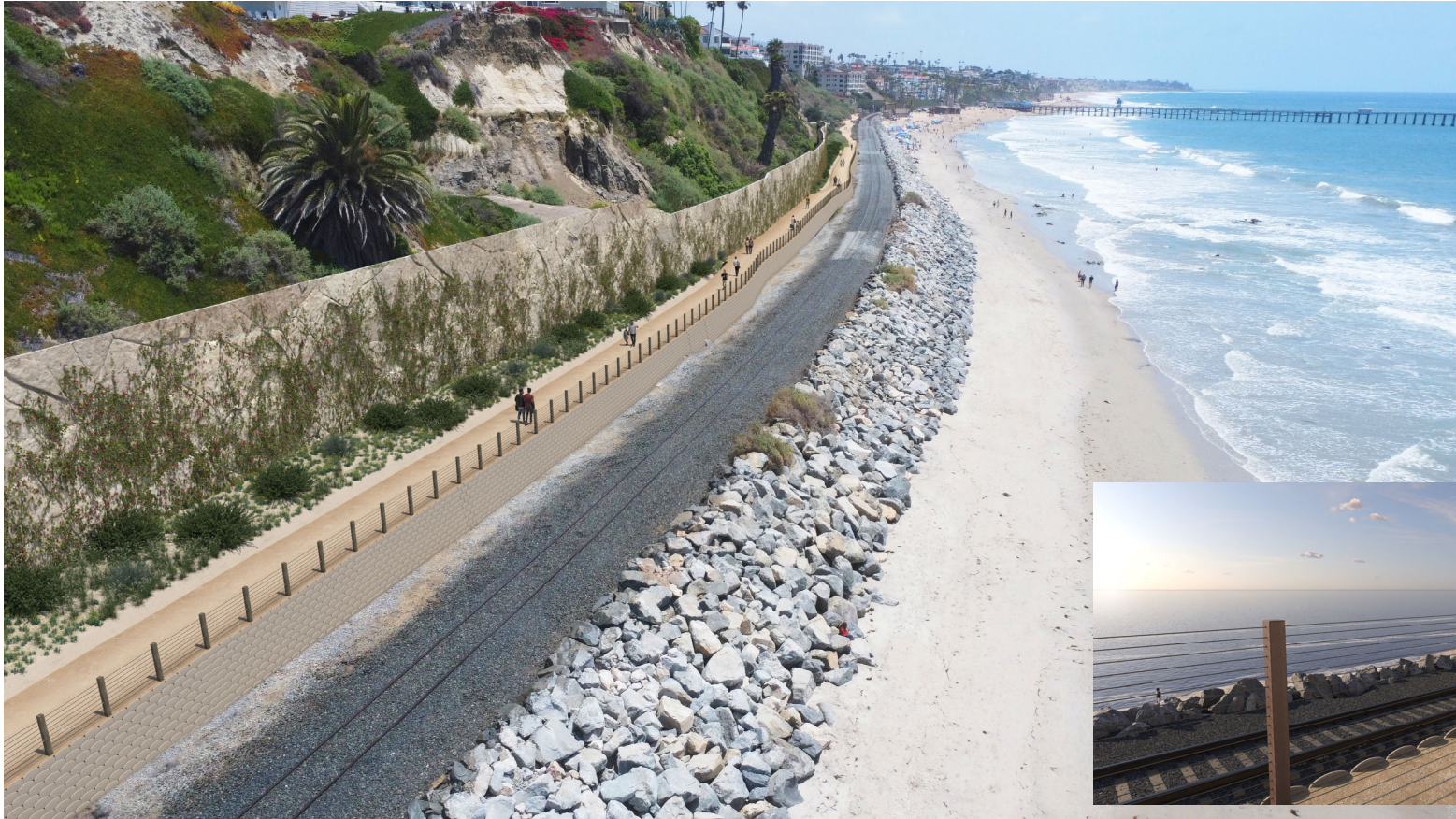
Area 3 Mariposa Catchment Wall Activities

- California Transportation Commission (CTC) allocated \$92.231 million on May 16, 2025
- Executed design-build contract with Condon Johnson & Associates (CJA)
 - Work began September 15, 2025
 - Current activities include removal of old pedestrian bridge, clearing and grubbing, final site investigation, soil nail shoring
 - Structural steel delivery in late November 2025
 - Soldier pile installation expected to start after delivery of structural steel
 - Revised final plans for construction under review
 - Challenges to protect +100-year-old City of San Clemente (city) sewer line in place

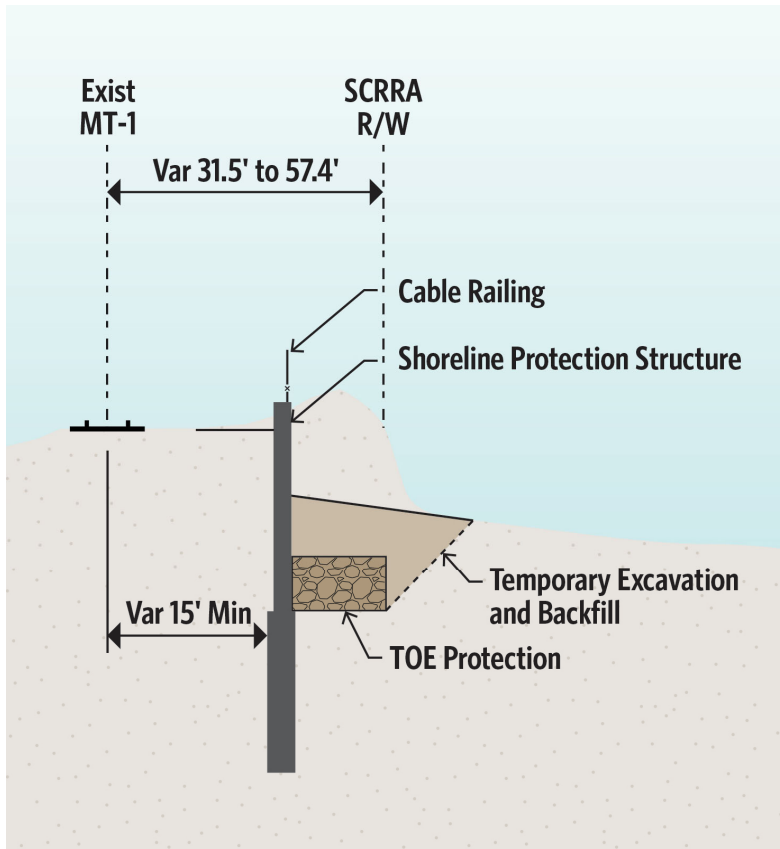




Area 3 Catchment Wall Renderings



Area 4 Shoreline Protection Structure Activities



Area 4 – Shoreline Protection Structure

- A Coastal Development Permit (CDP) waiver for geotechnical investigation testing was approved by the CCC on August 15, 2025
- Awaiting Metrolink approval on a Right-of-Entry Permit to begin the geotechnical investigation was submitted on September 29, 2025
- Geotechnical field investigation will provide validation of conceptual design
- CCC to consider a regular CDP for Area 4 protective design at future CCC meeting (date to be determined)



Estimated Remaining Schedule

Area 3 Mariposa Catchment Wall Activities

Estimated Number of Months	1	2	3	4	5	6	7	8	9	10	11	12	13
Contract Duration													
Notice to Proceed (June 17, 2025)													
Final Design	2 Months												
Steel Procurement		4 Months											
Construction					10 Months								

Area 4 Shoreline Protection Structure Construction

Estimated Number of Months	1	2	3	4	5	6	7	8	9	10
Area 4 - Shoreline Protection Structure	8 Months									

Sand Nourishment Construction

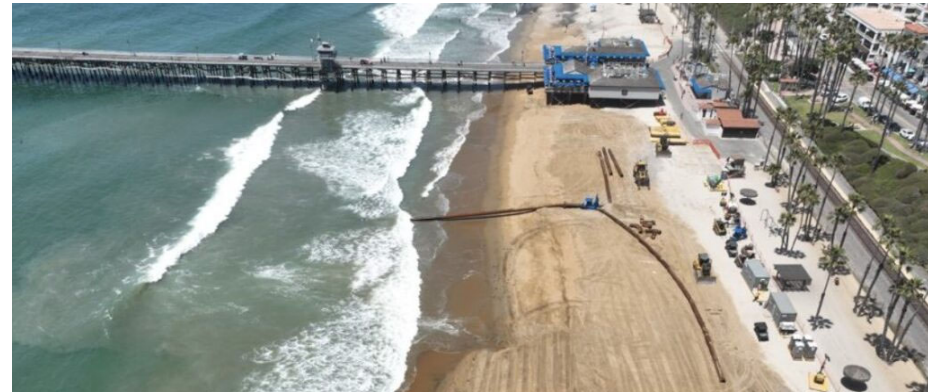
Estimated Number of Months	1	2	3	4	5	6	7	8	9	10
Sand Nourishment	9 Months									

North Beach and Area 1 initial sand nourishment is complete
 Areas 4 schedule is TBD depending on environmental and permit approvals
 Sand nourishment schedule is TBD depending on environmental and permit approvals



Sand Nourishment

- Securing federal environmental clearance for offshore sand source dredging and placement of sand for Areas 1, 2, and 4
- U.S. Army Corps of Engineers is the lead agency for environmental approval
- OCTA is utilizing previous studies by the city to streamline the process
- Surfside/sunset determined to be a viable offshore sand source, pending final lab testing
- Marine environmental studies for beach nourishment are underway
- Preliminary sand nourishment schedule (subject to change)
 - Federal environmental and design approval late 2026
 - Procure dredge and placement contractor early to mid-2027
 - Notice to proceed based on dredge availability and permitting mid-2027 to late 2027



Pictures from San Clemente Sand Replenishment Project



Contract Commitments as of October 1, 2025

Area	Entity	Agreement	Value
Area 1, 2, & 3 (Bridge Removal)	Southern California Regional Rail Authority (SCRRA)	Cooperative agreement	\$8,238,000 (Direct Allocation by CTC)
Area 1, 2, & 3 (Bridge Removal)	Los Angeles – San Diego – San Luis Obispo Rail Corridor Agency	Cooperative agreement for bus bridge	\$565,000
Area 1 & 2	Joshua Grading & Excavating, Inc.	Construction contract for early sand placement	\$879,000
Area 3	SCRRA	Cooperative agreement for rail support	\$4,500,000 (Direct Allocation by CTC)
Area 3	Kleinfelder, Inc.	Contract for Independent Geotechnical Review	\$50,000
Area 3	CJA	Design-build contract	\$46,196,198
Area 1, 2, & 4	City of San Clemente	Cooperative agreement to partially fund offshore sand exploration	\$180,000
Area 1, 2, 3 & 4	Mott MacDonald	Program management consultant services to provide environmental clearances, design, permitting, construction management, and project management	\$6,442,470
		Total:	\$67,050,668

Note: \$246.19 million of the \$313.24 millions approved funds will be committed as the projects progress



Recommendation

Reaffirm Resolution No. 2025-068 and authorize the Chief Executive Officer to take all necessary actions to address the emergency need for railroad track stabilization in the vicinity of Mile Post 203.80 to 204.40 and 206.00 to 206.70 on the Orange Subdivision, and to return to the Board of Directors, as required, to report on the status thereof.